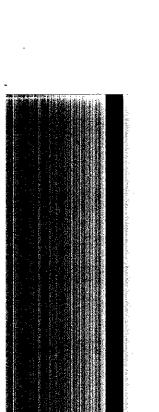
04-CC,SOL-80-22.0/22.7,0/1.8

CONTRACT 04-013014

PERMITS AND AGREEMENTS

US COAST GUARD
FEDERAL AVIATION ADMINISTRATION
DEPT. OF FISH AND GAME
SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION
DEPARTMENT OF THE ARMY



Coast Guard Island Alameda, CA 94501-5100 Staff Symbol: (oan-2) Phone: (510) 437-3514 FAX: (510) 437-5836

16591 Carquinez St. (0.2) Ser: 022-99 January 19, 1999

State of California Department of Transportation Attn: Ms. Susan Chang Project Manager, Carquinez Bridge Project P.O. Box 23660 Oakland, CA 94623-0660

Dear Ms. Chang:

Your application of September 8, 1998 for Coast Guard approval of the location and plans of a proposed suspension bridge to be constructed across the Carquinez Strait mile (0.2) between the town of Crockett in Contra Costa County and the City of Vallejo in Solano County, California has been approved by the Commandant, U.S. Coast Guard. The instrument of approval, Bridge Permit 2-98-11 dated December 31, 1998, with the approved plans is enclosed (encl. 1). Strict compliance with all terms of the permit is required.

Please review the conditions of the permit, particularly the time restrictions on commencement and completion. If CalTrans is unable to meet these time limits, please request an extension of time at least 30 days in advance of the expiration of your permit. This request can be made to our office at the address listed above.

This office should be kept informed concerning the status of the project. Please advise us of any pre-construction conferences, and furnish the starting date of construction at least 15 days prior to commencement so that we can apprise waterway users. Further, it is requested you provide this office with monthly progress reports giving a brief description of work accomplished and showing the percentage of the project completed. The Coast Guard will conduct periodic inspections to insure that the work is not unreasonably interfering with navigation.

Permanent bridge lighting required for the protection of navigation has been prescribed by authority of the District Commander, in accordance with Title 33, Code of Federal Regulations, Part 118. The lighting permit, encl. (2) is forwarded for your records and as your authority to display the lighting prescribed. The permit covers both the new bridge and the adjacent (1958) eastbound bridge. All navigational lights prescribed shall be displayed from sunset to sunrise and at other times when visibility is less than one mile; they shall be of sufficient candlepower to be visible against background lighting at a distance of at least 2,000 yards. Lights should be installed as soon as construction work reaches the point where the new structure presents a hazard to navigation. Temporary lights may be prescribed for falsework. Please notify this office when the lights have been placed in operation. Please note that responsibility of the bridge owner does not cease upon installation of the prescribed lights. A thorough program of inspection and maintenance is necessary to insure that the navigational lighting is always properly displayed.

Subj: Suspension Bridge across Carquinez Strait Mile (0.2)

Enclosure (2) also depicts other aids to navigation on the bridge. One aid is the fog bell, which you should relocate from Pier 2 of the existing 1927 bridge to the north pier of the new suspension bridge. Another aid is the fog horn, which you should relocate from Pier 3 of the existing 1927 bridge to the south pier of the new suspension bridge. Please also note Racons "N" and "C"; Racon N should remain in its present location, and Racon "C" should be relocated from its position marking the center of the south channel on the 1927 bridge to a position marking the center of the south channel on the 1958 bridge.

Finally, I have attached a completion report (encl. 3). Upon completion of the entire project, please submit written certification that the new structure has been built in accordance with the approved plans and that all conditions of the permit have been fulfilled. It is important that this certification be made since this information is published in various nautical publications which inform vessel masters and boaters of clearances for bridges, pipelines, and conveyors across navigable waters of the United States. If you take pictures of the bridge, please provide two 8" x 10" glossy black and white photographs for our files, showing the completed structure as would be seen by the mariner, from both upstream and downstream.

Sincerely,

W. R. TILL

Chief, Bridge Section

U.S. Coast Guard

By direction of the District Commander

Encl: (1) Bridge Permit (2-98-11)

(2) Lighting Permit

(3) Completion Report



BRIDGE PERMIT

TIEC 3 | 1998

(2-98-11)

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled "General Bridge Act of 1946," as amended (33 U.S.C. 525-533), the consent of Congress was granted for the construction, maintenance and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS the Secretary of Transportation has delegated the authority of Section 502(b) of that act to the Commandant, U.S. Coast Guard by Section 1.46(c) of Title 49 Code of Federal Regulations;

approve the location and plans of any such bridge and may impose any specific conditions relating to the construction, maintenance and operation of the structure deemed necessary in the interest of public navigation, such conditions to have the force of law:

AND WHEREAS the - STATE OF CALIFORNIA - has submitted for approval the location and plans of a bridge to be constructed across the Carquinez Strait between Vallejo and Crockett, California;

NOW THEREFORE, This is to certify that the location and plan sheets 1 and 2 (of 3) dated 8 September 1998 and sheet 3 revised 28 December 1998 are hereby approved by the Commandant, subject to the following conditions:

- 1. No deviation from the approved plans may be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the Commandant.
- 2. The construction of falsework, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, Eleventh Coast Guard District, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the judgment of the District Commander the construction work has reached a point where such action should be taken, but in no case later than 90 days after the bridge has been opened to traffic.

Continuation Sheet Bridge across Carquinez Strait between Vallejo and Crockett, California BRIDGE PERMIT

- 3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of the U. S. Department of the Interior, Fish and Wildlife Service; U.S. Department of Commerce, National Marine Fisheries Service, or any other federal, state, or local authority having cognizance of any aspect of the location, construction, or maintenance of said bridge.
- 4. A bridge fendering system shall be installed and maintained in good condition by and at the expense of the owner of the bridge. The location of, and materials to be used in construction of, the pier protection fender system, as shown on the approved plan sheet 3 (of 3) revised 28 December 1998, shall be submitted to the Commander, Eleventh Coast Guard District for approval prior to commencing construction of such system. The pier protection for the south pier of the eastbound I-80 Bridge shall be replaced with a new pier protection system extending from the I-80 Bridge to the new westbound I-80 Bridge. The existing pier protection at the north pier of the eastbound I-80 Bridge shall be extended to the new westbound I-80 Bridge. The permittee shall notify the District Commander in writing of the alternative chosen for the construction of the fender design alternative within 90 calendar days subsequent to the bid award.
- 5. All parts of the existing to be replaced westbound Interstate 80 Bridge across Carquinez Strait, mile 0.2, not utilized in the new bridge shall be removed in their entirety and the waterway cleared to the satisfaction of the District Commander. A period of one year subsequent to the opening to traffic of the new bridge, mile 0.2, will be allowed for such removal and clearance.
- 6. When the proposed bridge is no longer used for transportation purposes, it shall be removed in its entirety or to an elevation deemed appropriate by the District Commander and the waterway cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed by and at the expense of the owner of the bridge upon due notice from the District Commander.
- 7. The approval hereby granted shall cease and be null and void unless construction of the bridge is commenced within three years and completed within five years after the date of this permit.

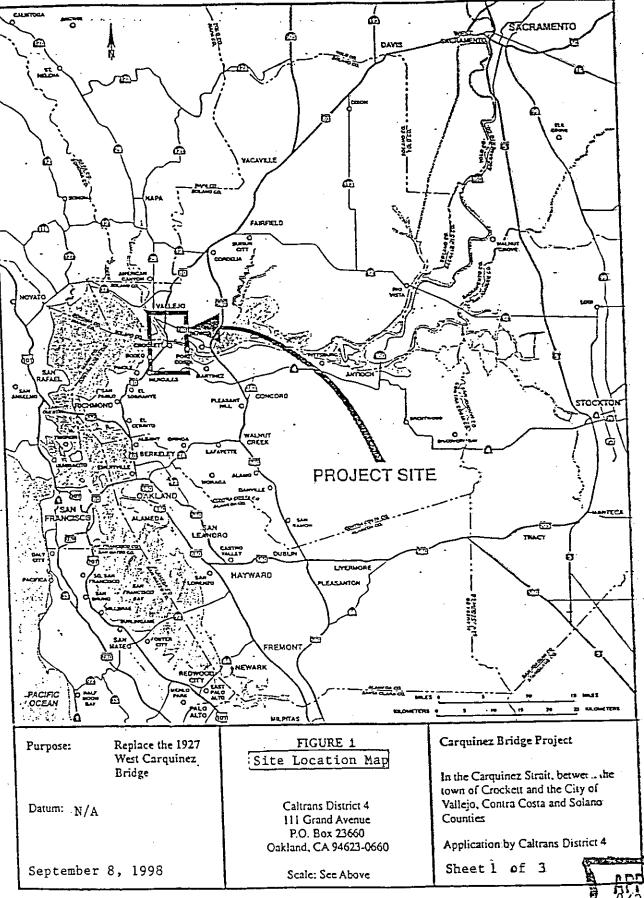
MEMPRAS

Chief, Office of Bridge

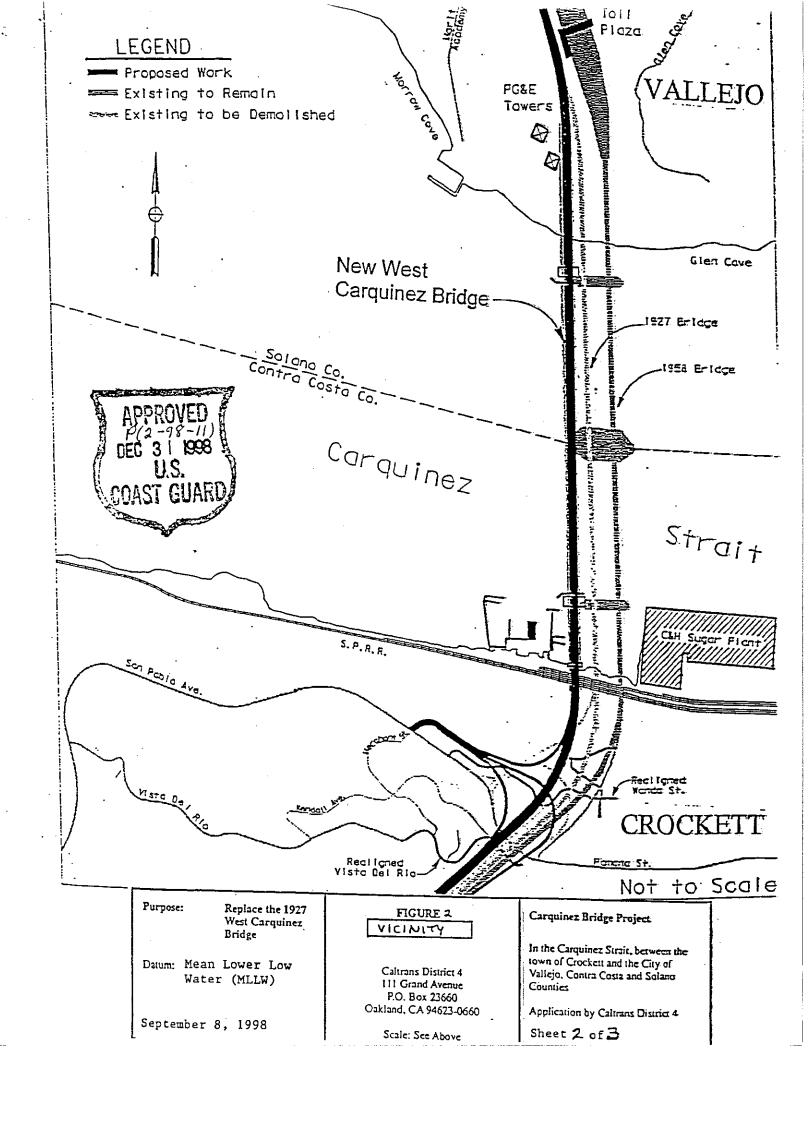
Administration

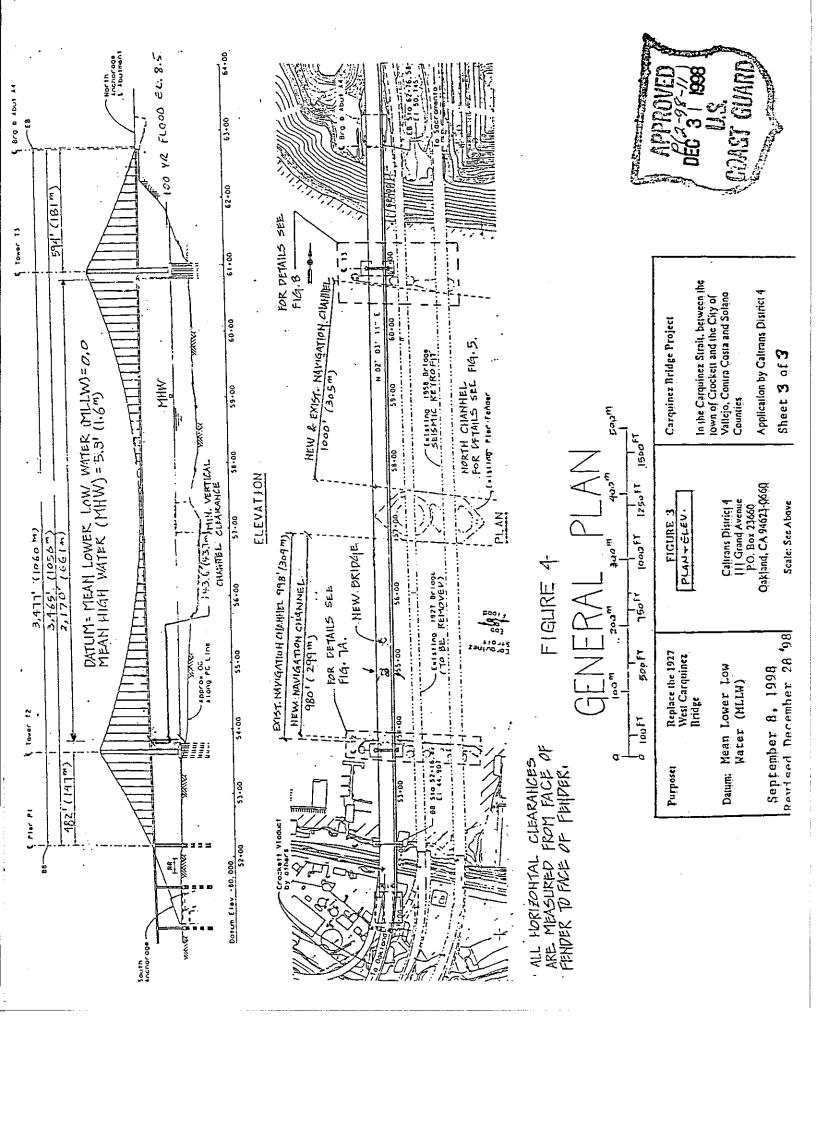
U. S. Coast Guard

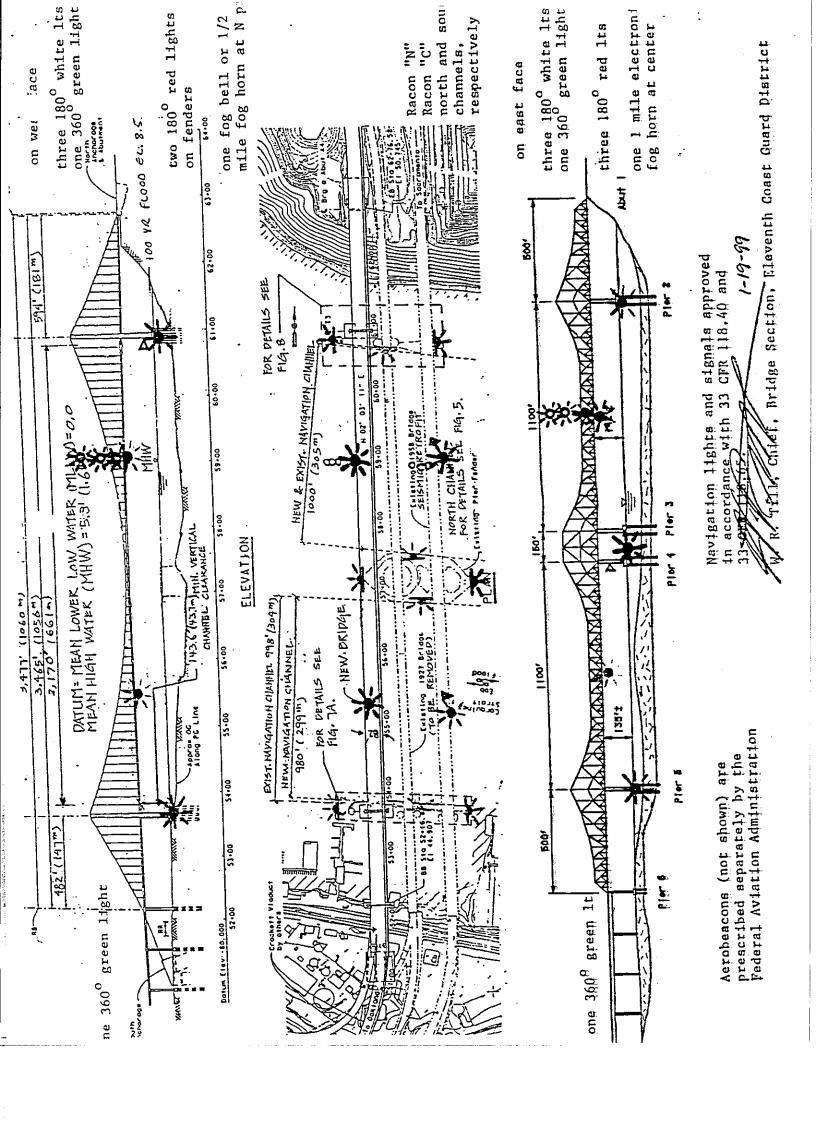
By direction of the Commandant:



DEC 3 | 1998 | U.S. CDAST GUARD







16591 Carquinez Strait (0.2)

From:	DATE:
To: Commander, 11th Coast Guard District Bldg 50-6	
Coast Guard Island Alameda, CA 94501-5100	
Our bridge project is completed and the following in PERMIT:	formation is submitted for your records under
Construction of the substructure started on and substructure construction was finished on	·
Construction of the superstructure started on and superstructure construction was finished on	•
3. The new bridge section was opened for use on _	·
4. The bridge providesfeet horiz navigable channel(s).	ontal waterway clearance in
5. The bridge providesfeet vertical clearance above Mean Hi	earance above Mean Lower Low Water and gh Water.
6. All parts of the former bridge at this location not the mud line.	incorporated in the new bridge have been removed to
7. The bridge is owned by: the bridge is operated/n	naintained by:
tel:tel:	
8. I certify that the bridge has been built in accordant authorized modifications to such plans) and all conformed the bridge are enclosed.	ance with the approved permit plans (or USCG ditions of the permit have been fulfilled. Photographs
,	
Signature	
Printed name and title	

Federal Aviation Administration Western/Pacific Region, AWP-520 P. O. Box 92007 WWPC Los Angeles, CA 90009

AERONAUTICAL STUDY No: 99-AWP-0248-OE PRIOR STUDY No: 99-AWP-0113-OE

ISSUED DATE: 04/06/99

DISTRICT 4 - NEW CARQUINEZ BRIDGE CALIF DEPARTMENT OF TRANSPORTATION P.O. BOX 23660 OAKLAND, CA 94623

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has completed an aeronautical study under the provisions of 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerning:

Description: CRANES FOR CARQUINEZ STRAIT I-80 SUSPENSION ERIDGE

Location: Latitude:

CROCKETT

CA 38-03-22.71 NAD 83

Longitude:

122-13-30.88

Heights:

500 feet above ground level (AGL) 500 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does exceed obstruction standards but would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

-As a condition to this determination, the structure should be marked and/or lighted in accordance with FAA Advisory Circular 70/7460-11, Obstruction Marking and Lighting, Chapters 3 (Marked), 4, 5 (Red), & 13.

-It is required that the enclosed FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

/ At least 10 days prior to start of construction (7460-2, Part I)

Within 5 days after construction reaches its greatest height
(7460-2, Part II)

-It is required that the FAA be notified at least 48 business hours prior to the temporary structure being erected and again when the structure is removed from the site. Notification should be made to this office during our core business hours (Monday through Friday, 9:00 am to 3:00 pm) via telephone at 310 725-6557. Notification is necessary so that aeronautical procedures can be temporarily modified to accommodate the structure.

This determination expires on 04/06/04 unless:

extended, revised or terminated by the issuing office or the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case the determination expires on the date prescribed by the FCC for completion of construction or on the date the FCC denies the (b) application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

-As a result of this structure being critical to flight safety, it is required that the FAA be kept apprised as to the status of this project. Failure to respond to periodic FAA inquiries could invalidate this determination.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, frequency(ies) or use of greater power will void this determination. Any future construction or alteration, including increase in heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at 310 725-6557. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 99-AWP-0248-OE.

Karen Mc Donald

Specialist, Airspace Branch

7460-2 Attached

(EBO)

CRITICAL TO FLIGHT SAFETY

Before completing this form it is recommended that the following excerpts from the Federal Aviation Regulations, Part 77, Subpart B below be reviewed.

-§77.13 Construction or alteration requiring notice.

(b) Each sponsor who proposes construction or alteration that is the subject of a notice under paragraph (a) of this section and is advised by an FAA regional office that a supplemental notice is required shall submit that notice on a prescribed form to be received by the FAA regional office at least 48 hours before the start of the construction or alteration.

(c) Each sponsor who undertakes construction or alteration that is the subject of a notice under paragraph (a) of this section shall, within 5 days after that construction or alteration reaches its greatest height, submit a supplemental notice on a prescribed form to the FAA regional office having jurisdiction over the area involved, if —

- The construction or alteration is more than 200 feet above the surface level of its site; or
- (2) An FAA regional office advises him that submission of the form is required.

§77.17 Form and time of notice

(e) Each person who is required to notify the Administrator by paragraph (b) or (c) of §77.13, or both, shall send an executed copy of FAA Form 7460-2; Notice of Actual Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area involved.

SUPPLEMENTAL NOTICE — General Instructions

For your convenience in meeting Supplemental Notice Requirements of FAR Part 77, this form is set up in two parts. Please ensure all entries are legible throughout the form set.

Submission instructions are contained at the top of each part. Information in Section 2 (Construction Location — Height) is vital for accurate charting and to adjust, if necessary, operational procedures and minimum flight altitudes.

PART 1 - To Report Actual Start of Construction or Alteration

PART 2 - To Report A Structure Reaching Its Greatest Height

OR

To Report A Construction/Project Abandoned or Dismantled

Agency Display Of Estimated Burden For Notice of Actual Construction or Alteration

The public report burden for this collection of information is estimated to average 13 minutes per response.

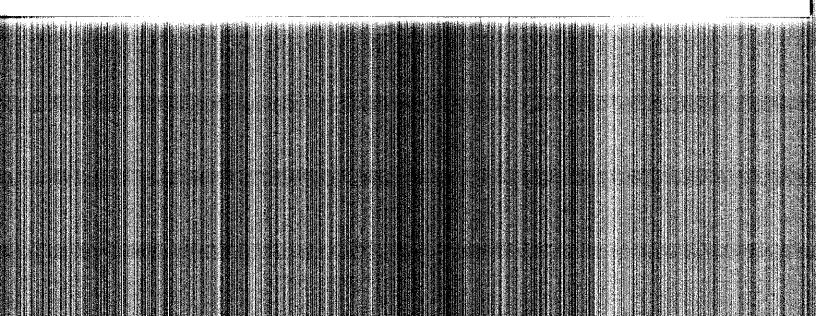
If you wish to comment on the accuracy of the estimate or make suggestions for reducing this burden; please direct your comments: to OMB and the FAA at the following addresses.

Office of Management and Budget Paperwork Reduction Project 2120-0001 Washington, D.C. 20503 — and —

U.S. Department of Transportation
Federal Aviation Administration
Airspace and Obstruction Evaluation Branch, ATP-240
800 Independence Avenue, S.W.
Washington, D.C. 20591

Please DO NOT RETURN your form to either of these addresses.

FAA Form 7460-2 (1-93)



SUPPLEMENTAL NOTICE

Form Approved OMB No. 2120-0001 Submission Instructions: For Advance Notice of Actual Construction or Alteration. Complete items 1, 2, 3A(1), 3A(2), and 6. If applicable, also complete items 4 and 5. Detach Part 1. Fold and tape at bottom. Mail to the 7-AWP 248.0E FAA Regional Office for your area. Part 1A is provided for your file. Notice of Actual Construction or Alteration (Please Type or Print on this Form) U.S. Department of Transportation Federal Aviation Administration 1. Construction B. Owner of Structure A. Type and Description of Construction ☐ New ☐ Alteration 2. Construction Location — Height B. Location (City, State, include street address if any) A. Coordinates (To hundredths of seconds, if known) Latitude Longitude Total Height (Structure & Site) C. Construction Heights Above Mean Sea Level Site Elevation _FL AMSL Structure Height FL AMSL Name of Nearest Public-Use or Military Airport (Include Distance and Direction from the Airport) E. Reference datum of coordinates D. Site Elevation Determined By Actual Survey ■ NAD 27 ☐ NAD 83 USGS 7.5' Quad Chart Other (Specify) Other (Specify) 3. Construction Notifications A. Notification B. Construction Project (Notice is Critical to Flight Date Safety — FAR Part 77 Required) Date (1) Construction will start \star (1) Project Abandoned. (Submit at least 48 hrs. in advance) (2) Estimated Completion (2) Construction Dismantled (3) Structure Reached Greatest Height ★ (Submit within 5 days) 4. Marking and Lighting A. Marked B. Lighted Medium Intensity White ☐ Red High Intensity White ∏ Noπe Dual (Medium Intensity White & Red) Dual (High Intensity White & Red) □ No ☐ Temporary ☐ Yes 5. Antenna Requiring FCC License D. Date Construction Permit Issued C. Date Applied for FCC Construction Permit A. Call Sign B. Frequency 6. Preparer's Certification ed by a please B. Construction Proponent A. Proponent's Representative Name: Name: Address: Address: (If submitte esentative, n B.) BY. repre item (include Area Code) Tel. No.:

NOTICE is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (45 U.S.C. app § 1501). Persons who knowingly and willfully violate the Notice requirements of Part 77 are subject to a civil penalty of \$1,000 per day until notice is received pursuant to Section 901(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. app § 1471(a)) as well as a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. app § 1472(a)).

I hereby certify that the information provided is true, complete, and correct to the best of my knowledge.

JAN 2 5 1999 No. Department of Transportation Failure To P	otice of Proposed (Construction or Alte	eration	otice 99-AWP-011	
Federal Aviation Administration				te Description of Structu	
1. Nature of Proposal A. Type B. Class	C. Wor	k Schedule Dates		e the proposed construction or al	
New Permanent	Вед	pinning Oct 1999	A. For proposa	als involving transmitting stations	include
C. zion Temporary (D	ouration months) .	End <u>Dec 2005</u>	effective rad	diated power (ERP) and assigned give frequency band and maximu	frequency. If
Alteration *			j		- 1
* If Alteration, provide previous FAA Aeronautica	Study Number, if Available:		etc., include	els involving overhead wire, trans the size and the configuration o	mission lines, the wires and
3A. Name, address, and telephone number	of individual, company cor	rporation, etc. proposing	their supporting structures.		
the construction or alteration. (Number, S			C. For buildings, include site orientation, dimensions, and construction materials.		
	nia Department of Transport		Optional - Describe the type of obstruction marking and		
District	4 – Toll Bridge Program / N	lew Carquinez Br.	lighting sys	tem desired. The FAA will consid	ier this in their
	ox 23660		1		1
Area Code Telephone Number Caklan	d, CA 94623-0660	if different than 34, shove	New two-to	ver evenension bridge to ca	<u>"</u> ,
38. Name, address, and telephone number of	it proponent's representative,	, it different than SA. above.	New two-tower suspension bridge to carry westbound Interstate 80 across the Carquinez Strait		
				ockett in Contra Costa Cour	
()			of Vallejo in	Solano.	
Area Code Telephone Number	15		. 15	Height and Elevation	(to nearest foot)
4. Location Of Structure	B. Nearest City or Town	C. Nearest public, military ain		Elevation of ground above mean	(to nearest toot)
A. Coordinates (to numbrecass of seconds, if known)	and State	heliport, flightpark, or sear	clane base	sea levei.	
Latitude 38° 3′ 23.	" Crockett, CA	Buchanan Field, Conc	ord		0
<u> </u>	(1). Distance to 48	(1). Distance from structure to	o nearest 6.	Height of structure including all	
122 13 21.		point of nearest runway		appurtenances and lighting above	420
40. Source for item 4A data.	0 Miles	10.4 Miles (2). Direction from structure t	o aircent	ground or water Cverail height above mean sea leve	430
USGS 7.5' Survey Othe Spec			J = 1,501,		}
	at N City Limit	Southeast		simple province to the fact	430
Indicate the reference satura.	4E. Description of site	e location with respect to hig sileto. Please attach a U.S. O	ghways, street, : Seciodical Surve	airports, prominent terrain, fea y Map (or equivalent) showing the	ures,. Econstruction
NAD 27 NAD 83 Spec	site. If available, a	ttach a copy of a documented	site survey with	the surveyor's certification.	
No required by Part 77 of the Federal Aviation 8	See attached Figur	es 1 - 6		amended (45 II S.C. and 6 (501) Pers	OS WOO
I the second of the second of the black of the second of t	of Dark 77 are subject to a civil cessi	ity of \$1,000 der day notil the solice is	s received, cursuanti	io Section Solita) of the Pedelm Aviantin	MC: CI
1958, as amended (49 U.S.C. app. § 1471 (a)) as well shotal of the Federal Aviation Act of 1958, as amende	as the fine (cominal penalty) of not need (49 U.S.C. app. 5 1472(a)).	nore than \$500 for the first offense an	d not more than \$2.5	CO ICT SUBSECUENT CHERSES, pursuant o	165
THEREBY CERTIFY that all of the all	ove statements made by	y me are true, complete, a	and correct to	the best of my knowledge.	In addition, I
agree to obstruction mark and/or lig	the structure in accor	dance with established n	narking &ilign	ting standards as necessar	/·
	Nes J. Mull		S. grand	O/w / Willy	مر
	1115 21 11911		I I -	rm or issue a separate acknowl	
FOR FAA USE ONLY				ired any time the project is abandoned, or	
The Proposal:	Supple	At least 48 hours before the start			
L Loes not require a notice to FAA.		Within five days after the constru			
is not identified as an costruction under the stan	cares of FAR, Part // This de	elemination excires on	T	" TALATIGIT TO OUT	Quitess:
Subpart C. and would not be a hazard to air navi	/h) tha	construction is subject to the licensia	c authority of the Fed	teral Communication Commission (FCC)	auc su schilcenon
Suppart C, but would not be a hazard to air navig	aucn. 44 - 4- 54	construction permit is made to the FC pres on the date prescribed by the FC	IC on or before the a IC for completion of o	cove expiration date. In such cases the construction, or on the date the FCC denie	s the application.
Should be costruction I marked Elighted	per EAA. / 2	e de la companya de		mination must be postmarked or delivere	
Advisory Circular 70/7460-1, Chapters	-at leas	st 15 days prior to the expiration date.	ومسائره والمتاب		
Obstruction marking and lighting are not necess	ary If the	structure is subject to the licensing au	thonry of the FCC, a	ctov of this determination will be sent to t	hat acency
Remarks (Clark Control of the Contro					
	Marie Carlos Como de Carlos Ca			The state of the s	
NAD 83 Coordinates (Use	these coordinates for any	Latitude 300	03 22.7	Longitude 122	13 20 8
Internal Section 1997	A STANTON	Latitude (2000)	3 1 00 . 1	Date	1-7 -1 -00 -00
Hauthane.			وكاروبها	1 .	er/1/88
_ 			70,00	NSN: 0252-00-0	
F. Jam 7460-1 (5:54) Supersedes Previo Offi-eirport construction: lowa & N		ic Revision ber ACE-525 (12-95) VA ACE-530A, 601 E. 12tl	h St., Kansas		26-3409
	k Missouri: FA	A ACE-530C, 601 E. 12t	h St., Kansas		26-3408
On-airport construction: lowa, Ka	nsas, Nebraska,				
& Missouri: FAA ACE-625D, 601 E, 12th St., Kensas City, MO:6≠106. 816-425-4723					
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農大學的 新拉拉 医克勒斯氏检测剂器 计多数 化电子电影 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基					

AGREEMENT REGARDING PROPOSED STREAM OR LAKE ALTERATION

THIS AGREEMENT, entered into between the State of California, Department of California, Departme	ent of Fish and Game, hereinafter called the Department, of Oakland
, State of <u>California</u> , hereinafter called the operator, i	s as follows:
WHEREAS, pursuant to Division 2, Chapter 6 of California Fish and Game Control 1998, notified the Department that he intends to substantially divert or obstantially or bank of, or use material from the streambed of, the following with the Country of Contra Costa, State of California, S 31 T 3N	truct the natural flow of, or substantially change the bed, water: tributary to Carquinez Straits
WHEREAS, the Department (represented by <u>Michael O. Buelna</u> 2nd day of <u>September</u> operations may substantially adversely affect existing fish and wildlife resour and mammals, game and nongame fish, aquatic life, reptiles, and water qu	

THEREFORE, the Department hereby proposes measures to protect fish and wildlife during the operator's work. The operator hereby agrees to accept the following recommendations as part of his work:

- 1. All work in or near the stream or lake shall be confined to the period April 15 through October 15 of each year
- 2. This agreement is specifically for impacts to the un-named drainage under the existing Carquinez Bridge, that is a tributary to Carquinez Straits. Mitigation for the encroachment into the wetland area shall be on-site and at a ratio of 2:1. The mitigation area shall be established to the west of the existing wetland. Planted vegetation shall be maintained for a period of five years after the end of construction project.
- 3. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. The disturbed portion of the wetland area shall be restored to as near their original condition as possible.
- 4. Restoration shall include the revegetation of stripped or exposed areas with native plant species.
- 5. Equipment shall not be operated in the channels of flowing live streams except as may be necessary to construct crossings c barriers and fills at channel changes.
- 6. When work in a flowing stream is unavoidable, the entire streamflow shall be diverted around the work area by a barrie: temporary culvert, and/or a new channel. Construction of the barrier and/or the new channel shall normally begin in the downstream area and continue in an upstream direction, and the flow shall be diverted only when construction of the diversic is completed. Channel bank or barrier construction shall be adequate to prevent seepage into or from the work area. Channel banks or barriers shall not be made of earth or other substances subject to erosion. The enclosure and the supportive materials be removed when the work is completed and the removal shall normally proceed from downstream in an upstread direction.
- 7. Temporary fills shall be constructed of nonerodible materials and shall be removed immediately upon work completion.
- 8. A silt catchment basin shall be constructed across the stream immediately below the project site. This catchment basin shall constructed of gravel which is free from mud or silt, and lined with filter fabric. Upon completion of the project and after flowing water in the area is clear of turbidity, the gravel along with the trapped sediment shall be removed from the stream
- 9. If a stream channel has been altered during the operations, its low flow channel shall be returned as nearly as possible to natural state without creating a possible future bank erosion problem. The gradient of the streambed shall be as nearly possible the same gradient as existed prior to disturbance.
- 10. No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, oil or permoleum produ or other organic or earthen material from any construction, or associated activity of whatever nature shall be allowed to en into or placed where it may be washed by rainfall or runoff into, waters of the State. When operations are completed, 2

The operator, as designated by the signature on this agreement, shall be responsible for the execution of all elements of this agreement. A copy of this agreement must be provided to contractors and subcontractors and must be in their possession at the work site.

If the operator's work changes from that stated in the notification specified above, this agreement is no longer valid and a new notification shall be submitted to the Department of Fish and Game. Failure to comply with the provisions of this agreement and with other pertinent Code Sections, including but not limited to Fish and Game Code Sections 5650,5652 and 5948, may result in prosecution.

Nothing in this agreement authorizes the operator to trespass on any land or property, nor does it relieve the operator of responsibility for compliance with applicable federal, state, or local laws or ordinances.

THIS AGREEMENT IS NOT INTENDED AS AN APPROVAL OF A PROJECT OR OF SPECIFIC PROJECT FEATURES BY THE DEPARTMENT OF FISH AND GAME. INDEPENDENT REVIEW AND RECOMMENDATIONS WILL BE PROVIDED BY THE DEPARTMENT AS APPROPRIATE ON THOSE PROJECTS WHERE LOCAL, STATE, OR FEDERAL PERMITS OR OTHER ENVIRONMENTAL REPORTS ARE REQUIRED.

This agreement becomes effective on signature of operator and expires October 15,2003. If work is not complete by that date, a new application will be required with associated fees. No extensions will be given.

Operator _

Title / 1

Organization Cultrans - DIST 4

Date OCT 28, 1998

Title Fish and Game Warden

California Department of Fish and Game

Date October 20, 1998



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an Francisco Bay egional Water quality Control coard

101 Webster Street unte 500 akland, CA 94612 510) 286-1255 AX (510) 286-1380



Pete Wilson

April 20, 1998 File No. 2118.03(RHW)omt 2128.03

Susan Chang
Project Manager
California Department of Transportation
P.O. Box 23660
Oakland, CA 94623-0660

Subject: Waiver of Waste Discharge Requirements and Water Quality Certification for the Construction of a New Bridge Across the Carquinez Strait, Contra Costa

and Solano County

Dear Mrs. Chang:

We have reviewed the proposal to construct a four lane, 1,200 meter long bridge between Crockett (Contra Costa County) and Vallejo (Solano County). The new bridge will, in part, satisfy current seismic and traffic safety standards. Some 0.5 acres of waters of the United States will be filled by bridge pier foundations. In addition, approximately 0.25 acres of wetlands including channels and a perennial seep will be filled for a total of 0.75 acres.

The applicant has concluded formal consultation with the United States Fish and Wildlife Service under Section 7 of the Endangered Species Act for potential impacts to habitat of the Delta smelt, Sacramento splittail, winter-run chinook salmon and Central Valley steelhead. Caltrans proposes to create a new slough channel and marsh area of 1.3 acres in a 30 acre portion of Martinez Shoreline Park to replace fish habitat at a 3:1 ratio and bay fill at a 1:1 ratio.

The proposed project is being processed pursuant to the provisions of the Section 10 of the Rivers and harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344). The Regional Board has issued a waiver of Waste Discharge Requirements and Water Quality Certification to Contra Costa County for 0.22 acres of jurisdictional wetland fill associated with the Cummings Skyway Extention.

You have applied for a Clean Water Act Section 401 Water Quality Certification that the proposed project will not violate state water quality standards. Pursuant to Regional Board Resolution No. 87-053, Waste Discharge Requirements are waived with the following conditions:



Our mission is to preserve and enhance the quality of California's water resources; and ensure their proper allocation and efficient use for the benefit of present and future:generations:

- No debris, soil, silt, sand, cement, concrete or washings thereof, or other construction related materials or waste, oil or petroleum products or other organic materials deleterious to fish or wildlife shall be removed from the work area where such material may be washed into waters of the State.
- 2. Any bay sediment removed from the project site must be disposed of at an approved upland site.

Pursuant to Title 23, California Code of Regulations Section 3857, this action is equivalent to a waiver of water quality certification.

We anticipate no further action on this application. However, should new information come to our attention that indicates a water quality problem with this project, the Regional Board may issue Waste Discharge Requirements. Please contact Richard Whitsel at (510)286-1329 if you have any questions.

Sincerely,

Loretta K. Barsamian Executive Officer

Richard & Whitely

cc: Nadell Gayou, DWR
Bill Campbell, SWRCB-DWQ
Debra O'Leary, Regulatory Branch, USACOE

SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION

THIRTY VAN NESS AVENUE, SUITE 2011 SAN FRANCISCO, CALIFORNIA 94102-6080

PHONE: (415) 557-3686

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BCDC Original

SAN FRANCISCO BAY CONSERVATION & DEVELOPMENT COMMISSION

PERMIT NO. 18-98 November 20, 1998

California Department of Transportation P. O. Box 23660 Oakland, California 94623-0660

ATTENTION: Dennis Mulligan District Division Chief

AND

East Bay Regional Park District P. O. Box 5381 Oakland, CA 94605-0381

ATTENTION: Lloyd Wagstaff Land Acquisition Manager

Ladies and Gentlemen:

On November 19, 1998, the San Francisco Bay Conservation and Development Commission, by a vote of 18 affirmative, 0 negative, and 0 abstentions, approved the resolution pursuant to which this permit is hereby issued:

Authorization

A. Subject to the conditions stated below, the permittees, the California Department of Transportation and the East Bay Regional Park District (as a partial co-applicant) are granted permission to do the following:

1. In the Bay:

- a. Remove the 1927 Carquinez Bridge including approximately 134,000 square feet of suspended fill of the bridge deck and approximately 190 cubic yards of solid fill covering approximately 2,530 square feet of the transition pier footing, approximately 2,750 cubic yards of solid fill covering approximately 1,820 square feet of the southern pier footing, and approximately 1,115 cubic yards of solid fill covering approximately 1,115 cubic yards of so ing approximately 3,010 square feet of Bay surface area of the southern pier ship protection, and dispose of the material outside the Commission's jurisdiction;
- b. Retain the north and center pier footings of the 1927 bridge and use for ship protection for the new suspension bridge;

- c. Dredge approximately 14,000 cubic yards of material over an approximately 6,460-square-foot area to construct the new bridge, tower foundations and the fender piles and dispose of the material at an approved upland location outside the Commission's jurisdiction;
- d. Construct up to four temporary coffer dams covering approximately 14,400 square feet of Bay surface area for construction of the new suspension bridge tower foundations and remove the coffer dams when the tower foundations are complete;
- e. Construct and use a new suspension bridge including approximately 336,000 square feet of suspended fill for the bridge deck and approximately 8,810 cubic yards of solid fill covering approximately 22,170 square feet of Bay surface area for the two tower foundations, and approximately 80 cubic yards of solid fill covering approximately 1,830 square feet of Bay surface area for the transition pier, and use approximately 40,920 square feet for a twelve-foot-wide pedestrian and bicycle lane, approximately 122,760 square feet for three mixed-flow traffic lanes and approximately 40,920 square feet for a carpool lane;
- f. Install and use approximately 4,670 cubic yards of pile-supported fill covering approximately 15,460 square feet of Bay surface area for ship protection dolphins and fender piles including approximately 3,000 cubic yards of fill covering approximately 8,520 square feet of Bay surface area for the north pier and approximately 1,670 cubic yards of fill covering approximately 6,940 square feet of Bay surface area for the southern pier;
- g. On the southern shoreline construct and use approximately 140 cubic yards of pile-supported fill covering approximately 17,100 square feet of Bay surface area for an access trestle to build the south tower of the new suspension bridge and remove the trestle when the bridge is completed and dispose of the material outside the Commission's jurisdiction;
- h. On the northern shoreline, construct and use approximately 420 cubic yards of pile-supported fill covering approximately 11,000 square feet of Bay surface area for an access trestle to build the north tower of the new suspension bridge and remove the trestle when the bridge is completed and dispose of the material outside the Commission's jurisdiction;
- On the southern shoreline, remove approximately 660 cubic yards of dilapidated pier structures covering approximately 8,935 square feet of Bay surface area and dispose of the material outside the Commission's jurisdiction;
- j. At the Martinez Regional Shoreline, create up to 17 acres of tidally-influenced, shallow water habitat for project mitigation, and repair and replace existing culverts or install new culverts;
- k. At the Martinez Regional Shoreline, repair, replace and reconstruct, as needed, existing public access improvements, including pedestrian and bicycle bridges and boardwalks; and
- l. Repair, replace and maintain, on an in-kind basis only, all improvements authorized within the Bay to the specifications approved by or on behalf of the Commission.

2. Within the 100-foot shoreline band:

- a. On the southern shoreline, remove approximately 185 cubic yards of the 1927 transition pier covering approximately 5,030 square feet of the shoreline and dispose of the material outside of the Commission's jurisdiction;
- b. On the southern shoreline, construct and use approximately 600 square feet of the transition pier for the new suspension bridge;
- c. On the southern shoreline, construct and use approximately 10,000 square feet of the approach structures and use approximately 1,200 square feet for a twelve-footwide pedestrian and bicycle lane;
- d. On the southern shoreline, construct and use an approximately 33,000-square-foot temporary access road to construct the south tower of the new suspension bridge;
- e. On the northern shoreline, construct and use an approximately 24,000-square-foot temporary access road to construct the north tower of the new suspension bridge, and retain for public access;
- f. As needed, use areas of the northern and southern shoreline for project mobilization and staging areas;
- g. At the Martinez Regional Shoreline, create up to 17 acres of tidally-influenced, shallow water habitat for project mitigation, and repair and replace existing culverts or install new culverts;
- h. At the Martinez Regional Shoreline, repair, replace and reconstruct, as needed, existing public access improvements, including pedestrian and bicycle bridges and boardwalks; and
- Repair, replace and maintain, on an in-kind basis only, all improvements authorized within the shoreline band to the specifications approved by or on behalf of the Commission.
- B. This authority is generally pursuant to and limited by the permittees* application received September 28, 1998, but subject to the modifications required by the conditions herein.
- C. The work authorized by this permit must commence by December 31, 2000, and must be diligently pursued to completion and must be completed by December 31, 2005, unless the terms of this authorization are changed by amendment of this permit.
- D. The project authorized herein will result in a net increase of approximately 5.2 acres of new Bay fill, of which approximately 4.64 acres is high level, suspended fill that will not have any adverse impacts on Bay resources. The net increase in solid and pile-supported fill will be approximately 0.54 acres and there will be 0.14 acres of impacts to shallow water habitat. The solid and pile-supported fill will be mitigated by the creation of 1.3 acres of shallow water habitat at the Martinez Regional Shoreline. In addition, the project will provide approximately four acres of improved public access including a twelve-foot-wide pedestrian and bicycle lane across the strait and two vista points, one on each side of the Strait.

L Special Conditions

The authorization made herein shall be subject to the following special conditions, in addition to the standard conditions in Part IV:

A. Specific Plans and Plan Review

- 1. Plan Review. Caltrans shall not commence any work whatsoever pursuant to this authorization until final precise grading, drainage, mobilization, staging, site, engineering, architectural, landscaping and public access plans and any other relevant criteria, specifications, and plan information for that portion of the work have been submitted to, reviewed, and approved in writing by or on behalf of the Commission. The specific drawings and information required will be determined by the staff. To save time, preliminary drawings should be submitted and approved prior to final drawings. No changes to the design of the project shall be made without the prior written approval by or on behalf of the Commission.
 - a. Site, Architectural, Landscaping and Public Access Plans. Site, architectural, landscaping and public access plans shall include and clearly label the mean high tide line or in areas with wetlands the +5.0 foot contour line mean sea level, the line 100 feet inland of the mean high tide line or the +5.0 foot contour line, property lines, the boundaries of all areas to be reserved for public access purposes and open space, grading, details showing the location, types, dimensions, and materials to be used for all structures, irrigation, landscaping, drainage, seating, parking, signs, lighting, fences, paths, trash containers, utilities and other improvements.
 - b. Engineering Plans. Caltrans shall ensure that engineering plans include a complete set of contract drawings and specifications and design criteria. The design criteria shall be appropriate to the nature of the project, the use of any structures, soil and foundation conditions at the site, and potential earthquake-induced forces. Final plans shall be signed by the professionals of record and be accompanied by:
 - (1) Evidence that the design complies with all applicable codes; and
 - (2) Evidence that a thorough and independent review of the design details, calculations, and construction drawings has been made.
 - 2. Plan Requirements. Caltrans shall submit plans accompanied by a letter requesting plan approval, identifying the type of plans submitted, the portion of the project involved, and indicating whether the plans are final or preliminary. Approval or disapproval shall be based upon:
 - a. Completeness and accuracy of the plans in showing the features required above, particularly the mean high tide line or the +5.0 foot contour line mean sea level, property lines, and the line 100 feet inland of the mean high tide line or the +5.0 contour line mean sea level, and any other criteria required by this authorization;
 - b. Consistency of the plans with the terms and conditions of this authorization;

- The provision of the amount and quality of public access to and along the shoreline and in and through the project to the shoreline required by this authorization;
- d. Consistency with legal instruments reserving public access and open space areas;
- e. Assuring that any fill in the Bay does not exceed this authorization and will consist of appropriate shoreline protection materials as determined by or on behalf of the Commission;
- f. Consistency of the plans with the recommendations of the Design Review Board;
- g. Consistency of the plans with the recommendations of the Engineering Criteria Review Board; and
- h. Assuring that appropriate provisions have been incorporated for safety in case of seismic event.

Plan review shall be completed by or on behalf of the Commission within 45 days after receipt of the plans to be reviewed.

- 3. Conformity with Final Approved Plans. Caltrans shall ensure that all work, improvements, and uses conform to the final approved plans. Prior to any use of the facilities authorized herein, the appropriate design professional(s) of record shall certify in writing that, through personal knowledge, the work covered by the authorization has been performed in accordance with the approved design criteria and in substantial conformance with the approved plans. No noticeable changes shall be made thereafter to any final plans or to the exterior of any constructed structure, outside fixture, lighting, landscaping, signage, parking area, public access amenities, or shoreline protection work without first obtaining written approval of the change(s) by or on behalf of the Commission.
- 4. Discrepancies between Approved Plans and Special Conditions. In case of any discrepancy between final approved plans and Special Conditions of this authorization or legal instruments approved pursuant to this authorization, the Special Condition or the legal instrument shall prevail. Caltrans is responsible for assuring that all plans accurately and fully reflect the Special Conditions of this authorization and any legal instruments submitted pursuant to this authorization.

B. Public Access

1. Design Review Board. Caltrans shall submit for review by the Commission's Design Review Board the final design details for the bridge railing, the traffic barrier, bridge towers, vista points and other public access improvements upon which the Board has not yet reached consensus. The review shall not include structural elements, except as it may pertain to the bridge railings. Caltrans shall ensure that the Design Review Board's recommendations are incorporated, to the extent feasible as determined by or on behalf of the Commission, into the final design and included in the plans required under Special Condition II-A.

- 2. Area. Caltrans shall make the approximately four-acre area as generally shown on Exhibits "A" through "D" available to the public for public access such as walking, bicycling, sitting, viewing, fishing, picnicking, and related purposes. If Caltrans wishes to use the public access area for other than public access purposes or emergency and maintenance purposes as specified below, it must obtain prior written approval by or on behalf of the Commission. Caltrans may use the public access path on the replacement bridge during emergency circumstances or for repairs and maintenance of the bridge, such as, but not limited to, sanding and painting, that cannot otherwise be reasonably completed from non-public access areas. Such repairs must be carried out in manner that minimizes the closure of the public access path and, to the maximum extent feasible, ensures that the public has continuous access across the bridge. Caltrans must obtain prior written approval by or on behalf of the Commission for complete closures of the public access path that last longer than 24 hours and that prevent continuous public access across the bridge. Prior to the closure of the public access areas, Caltrans shall place signs at the entrance of the public access path at Maritime Academy Drive and San Pablo Avenue notifying the public that the path will be temporarily closed and identifying when the path will be reopened.
- 3. Public Access Guarantee. Prior to the use of the replacement bridge, Caltrans shall, by instrument or instruments acceptable to counsel for the Commission, dedicate to a public agency or otherwise guarantee for so long as the Commission determines such rights for the public to the new approximately four-acre public access areas. The public access guarantee does not apply to Carquinez Park and the gap closure area (path) which are both owned by the City of Vallejo. The instrument(s) shall create rights in favor of the public which shall commence no later than after completion of construction of any public access improvements required by this authorization and prior to the use of the replacement bridge authorized herein. Such instrument(s) shall be in a form that meets recordation requirements of either Solano or Contra Costa County and shall include a legal description of the property being restricted and a map that clearly shows and labels the mean high tide line or the +5.0 foot contour line mean sea level, the property being restricted for public access, the legal description of the property and of the area being restricted for public access, and other appropriate landmarks and topographic features of the site, such as the location and elevation of the top of bank of any levees, any significant elevation changes, and the location of the nearest public street and adjacent public access areas. Approval or disapproval of the instrument(s) shall occur within 30 days after submittal for approval and shall be based on the following:
 - a. Sufficiency of the instrument(s) to create legally enforceable rights and duties to provide the public access area required by this authorization;
 - b. Inclusion of an exhibit to the instrument(s) that clearly shows the area to be reserved with a legally sufficient description of the boundaries of such area; and
 - c. Sufficiency of the instrument(s) to create legal rights in favor of the public for public access that will run with the land and be binding on any subsequent purchasers, licensees, and users.

- 4. Recordation of the Instrument(s). Within 30 days after approval of the instrument(s), Caltrans shall record the instrument(s) in each relevant County and shall provide evidence of recording to the Commission. No changes shall be made to the instrument(s) after approval without the express written consent by or on behalf of the Commission.
- 5. Improvements Within the Total Public Access Area. Prior to the use of the new Crockett interchange, but no later than December 31, 2004, whichever is earlier, Caltrans shall install the following improvements:
 - a. On the replacement bridge, a twelve-foot-wide and approximately 3,410-foot-long, paved and separated, pedestrian and bicycle pathway;
 - b. On the northern shoreline, a twelve-foot-wide and approximately 3,670-foot-long paved and separated, pedestrian and bicycle pathway along the north approach roadway from the replacement bridge to Maritime Academy. Any retaining walls shall be properly screened with vines or other appropriate landscaping;
 - c. On the northern shoreline along Maritime Academy Drive, a twelve-foot-wide and approximately 430-foot-long, all weather pathway to close the gap between Maritime Academy Drive and Carquinez Park, an eight-foot-wide and approximately 575-foot-long, all weather, connector path within Carquinez Park to Sonoma Boulevard, and staging improvements at Carquinez Park. The pathway surfacing shall be suitable for bicycles, pedestrians and wheelchairs. To the extent it is physically feasible, the pathway shall be twelve feet wide.
 - d. On the southern shoreline, a twelve-foot-wide and approximately 1,805-foot-long, paved and separated, pedestrian and bicycle pathway on the westbound offramp from the replacement bridge to San Pablo Avenue;
 - e. On the northern shoreline, an approximately 18,934-square-foot vista point that is accessible by pedestrian and bicyclists, that is designed consistent with the natural landscape, and that includes a plaza with benches, garbage receptacles, interpretive signs explaining the history of the Carquinez Bridge and the Strait, and native drought tolerant landscaping;
 - f. On the southern shoreline, an approximately 35,248-square-foot vista point that is accessible by pedestrian, bicyclists, and automobiles, that is designed consistent with the natural landscape and that includes a plaza with benches, garbage receptacles, interpretive signs explaining the history of the Carquinez Bridge and the Strait, native drought tolerant landscaping, and parking for eight vehicles (one handicapped, three bus and four automobiles); and
 - g. An integrated public access and Bay Trail sign program that is designed to maximize public recognition, use and enjoyment of the public access areas and vista points required herein.

Such improvements shall be consistent with the plans approved pursuant to Special Condition II.A of this authorization and shall substantially conform to the recommendations of the Design Review Board.

- 6. Maintenance. Caltrans shall ensure that the areas and improvements within the approximately four-acre public access areas are permanently maintained. Such maintenance shall include, but is not limited to, repairs to all path surfaces; replacement of any trees or other plant materials that die or become unkempt, repairs or replacement as needed of any public access amenities such as signs, benches, drinking fountains, trash containers and lights; periodic cleanup of litter and other materials deposited within the access areas; removal of any encroachments into the access areas; removal of graffiti; and assuring that the public access and Bay Trail signs remain in place and visible. Within 30 days after notification by staff, Caltrans shall correct any maintenance deficiency noted in a staff inspection of the site.
- 7. Assignment. Caltrans may transfer maintenance responsibility to a public agency or another party acceptable to the Commission at such time as the property transfers to a new party in interest but only provided that the transferee agrees in writing, acceptable to counsel for the Commission, to be bound by all terms and conditions of this permit.
- 8. Reasonable Rules and Restrictions. Caltrans may impose reasonable rules and restrictions for the use of the public access areas required under Special Condition II-B-2 to correct particular problems that may arise. Such limitations, rules, and restrictions shall have first been approved by or on behalf of the Commission upon a finding that the proposed rules would not significantly affect the public nature of the area, would not unduly interfere with reasonable public use of the public access areas, and would tend to correct a specific problem that Caltrans has both identified and substantiated. Rules may include restricting hours of use and delineating appropriate behavior. Such rules and restrictions that are specified by the requirements of the Vehicle Code or the Streets and Highway Code are deemed reasonable and do not require approval by or on behalf of the Commission. However, Caltrans shall notify the Commission 14 days prior to implementing such rules and restrictions.
- C. Mitigation for Fill Impacts. Caltrans shall provide the following mitigation to minimize Bay fill and offset the adverse impacts to Bay-related resources and endangered species:
 - 1. Removal of 1927 Bridge. By December 31, 2005, Caltrans shall remove approximately 134,000 square feet of high-level suspended fill for the bridge deck, approximately 190 cubic yards of solid fill covering approximately 2,530 square feet of the footing for the transition pier, approximately 2,750 cubic yards of solid fill covering approximately 1,820 square feet of the footing for the southern pier, and approximately 1,115 cubic yards of pile-supported fill covering approximately 3,010 square feet for the pier protection, and shall dispose of the materials outside the Commission's jurisdiction. Caltrans shall remove the transition pier and footing to two feet below the original or existing ground, shall remove the southern pier footing and ship protection below the mudline and shall restore the affected areas to the original or existing contours and soil composition. Caltrans may retain the central and northern pier footings and use them for ship protection. Prior to removal of the 1927 Bridge, Caltrans shall prepare and

submit a removal plan to be approved by or on behalf of the Commission to ensure that the removal does not adversely impact Bay-related resources, endangered species, navigation and public health and safety. Should the 1958 bridge ever be replaced by Caltrans, Caltrans shall remove the central and northern pier footings of the 1927 bridge and all associated ship protection below the mudline and shall dispose of all material outside of the Commission's jurisdiction, unless Caltrans can affirmatively demonstrate to the Commission and the Commission agrees that: (1) the pier footings and ship protection are essential to protect the replacement bridges from collisions by waterborne vessels and that other ship protection measures would not provide a comparable or sufficient level of protection to prevent catastrophic failures; (2) the removal of the 1927 pier footings and ship protection and their replacement by new ship protection would result in a greater volume of Bay fill that covers more of the Bay surface area; or (3) the removal of the pier footings and ship protection would result in greater environmental impacts to Bay-related resources and endangered species than leaving them in place.

- 2. Removal of Temporary Structures. By December 31, 2005, Caltrans shall remove approximately 140 cubic yards of pile-supported fill covering approximately 17,100 square feet of Bay surface area for the temporary access trestle on the southern shoreline, and approximately 420 cubic yards of pile-supported fill covering approximately 11,000 square feet of Bay surface area for the temporary access trestle on the northern shoreline, and shall dispose of all materials outside the Commission's jurisdiction. Caltrans shall completely remove all pilings to ensure navigational safety.
- 3. Creosote Treated Structures. Prior to the construction of the transition pier for the replacement bridge, Caltrans shall remove approximately 660 cubic yards of solid fill covering approximately 8,935 square feet of Bay surface area of dilapidated, creosote covered piers and shall dispose of all material outside the Commission's jurisdiction. Caltrans shall remove all pilings below the mudline.
- 4. Revegetation of Disturbed Lands. After construction of the replacement bridge, but no later than December 31, 2005, Caltrans shall revegetate any areas impacted by the project that fall within the Commission's jurisdiction. Caltrans shall design all land-scape plans in cooperation with local city and county agencies and any community groups that have an interest in the project and shall strive to use native, drought tolerant landscaping that is appropriate to the micro-climatic conditions of the Carquinez Strait. Caltrans shall also work with Contra Costa County and the Carquinez Bridge Community Advisory Committee to develop a plan for the treatment of excess land. The plans for revegetation of disturbed areas within the Commission's jurisdiction shall be approved by or on behalf of the Commission pursuant to Special Condition II-A. The revegetation of areas outside of the Commission's jurisdiction shall be done in conjunction with Contra Costa County and shall include the use of Best Management Practices as specified by Special Condition II-I to prevent erosion and construction and to prevent stormwater runoff from being discharged into the Bay.
- 5. Shallow Water Habitat. Prior to the use of the replacement bridge, but no later than December 31, 2003, Caltrans shall create a minimum of 1.3 acres of tidally-influenced, shallow water habitat at the Martinez Regional Shoreline. The mitigation plan shall be

developed consistent with Special Condition II-D below and shall substantially conform to the mitigation plan entitled "Martinez Regional Shoreline Salt Marsh Enhancement Conceptual Plan Elements", dated September 8, 1998, and prepared by Philip Williams Associates, LTD. The mitigation work shall not adversely impact existing public access to and along the Bay shoreline and shall include, as needed, the installation, restoration or replacement of any public access improvements to ensure the maximum feasible public access at the Martinez Regional Shoreline consistent with the project and the requirements of the East Bay Regional Park District, and as approved pursuant to Special Condition II-A herein. Although the East Bay Regional Park District owns the Martinez Regional Shoreline, Caltrans shall be solely responsible to fund all costs to provide 1.3 acres of mitigation, prepare the plans, specifications and estimates, construct the mitigation, monitor and provide corrective measures as deemed necessary by state and federal resource agencies, and maintain any public access improvements installed, restored or replaced because of the mitigation project as approved pursuant to Special Condition II-A herein.

- Construction Limitations. Any work, placement of fill, or dredging in areas designated by state and federal resource agencies as shallow water habitat shall occur only between December 1 and March 31 or from trestles or within coffer dams.
- 7. Miligation Assurance. Caltrans shall permanently provide the mitigation required under Special Condition II-C. Should any portion of the Bay that Caltrans uncovers by the removal of the 1927 Bridge, the removal of the temporary access trestles and/or the removal of creosote covered structures be filled or covered for another project or use, such as the construction of a rail bridge, then an equivalent amount and kind of replacement mitigation shall be provided at or near the project site. Should any portion of the required mitigation that Caltrans provides at the Martinez Regional Shoreline be pre-emptied or replaced by another project or use, then an equivalent amount and kind of replacement mitigation shall be provided at or near the project site.
- D. Miligation Work and Plans. Prior to carrying out any mitigation work for the tidally-influenced, shallow water habitat at the Martinez Regional Shoreline, as required under Special Condition II-C-5 above, Caltrans shall provide a mitigation plan and program that complies with the following:
 - 1. Mitigation Plan. Prior to June 30, 1999, Caltrans shall submit a final mitigation plan and program, to be approved by or on behalf of the Commission, for the creation of a minimum of 1.3 acres of tidally-influenced, shallow water habitat at the Martinez. Regional Shoreline. The plan and program shall contain the following:
 - a. Site Conditions and Modifications. A topographic map of the site in one-foot contours showing the existing site conditions and a topographic map showing the proposed modifications. All elevations shall be relative to National Geodetic Vertical Datum (NGVD). The map shall include typical cross-sections showing proposed elevation of marsh plain, any channels, and any high spots. The map shall show figures for the ratios of typical horizontal to vertical slopes for existing and proposed levees, channels, and sloughs. The map shall show proposed plant species along the cross-sections according to their expected zone of growth. The

topographic map or a separate map shall show the site context or vicinity including storm drains, the elevation of adjacent surrounding properties, and the limit of the 100-year flood. The vicinity map shall include figures for the estimated tidal range related to Mean Higher High Water, Mean High Water, Mean Lower Low Water, Mean Sea Level, the maximum predicted tide, and the 100-year tide;

- b. Levee Breaches. For any levee breaches the plan and program shall show calculations for determining the size of any levee breach or pipe to be installed, including any tide control structure to be installed to control the amount of water entering at various tidal stages. The program shall indicate the amount of any cut and fill activities, the amount of material to be placed to strengthen the levee, and the expected tidal exchange. The expected tidal range shall indicate predicted expectations both inside and outside the levee breach. If plants will be used to protect the levee from erosion or undercutting, the program shall specify the type of plants to be used. If plants will not be used, the program shall describe how the breach will be protected from erosion and undercutting. If any inlet-outlet structures are to be used, the program shall include detailed drawings of such structure(s), their location at the site, with a schedule of operation, inspection and maintenance;
- c. Soil and Water Information. The plan and program shall include a report identifying the type of soils found at the site and the soil type of any fill to be imported to the site. Information shall be provided on the quantitative soil measurements of salinity, pH, organic content, and bulk density. Information shall also be provided on the water, including water analysis of salinity, pH, biochemical oxygen demand (BOD), dissolved oxygen (DO), and, if appropriate, heavy metals. The plan and program shall indicate where and how any excavated soils, creosote pilings and/or debris will be disposed and whether such materials need to be remediated;
- d. Public Access Improvements. The plan and program shall identify all existing public access improvements at the project site including informal and formal pathways, pathway connections to the nearest public right-of-way, pedestrian and bicycle bridges and boardwalks, benches, signs and other public access amenities. The plan and program shall ensure that the restoration work does not adversely impact existing public access and shall include, as needed, the installation, restoration and/or replacement of any public access improvements to provide the maximum feasible public access at the Martinez Regional Shoreline consistent with the project and the requirements of the East Bay Regional Park District, and as approved pursuant to Special Condition II-A herein;
- e. MOA/MOU. The plan and program shall include all executed MOAs/MOUs and cost agreements that establish the responsibilities between Caltrans, the East Bay Regional Park, and the City of Martinez for funding, designing, constructing and monitoring any mitigation work and public access improvements at the Martinez Regional Shoreline;

- f. Schedule and Phasing. In recognition that the Commission authorizes Caltrans and/or the East Bay Regional Park District to create up to 17 acres of tidally-influenced, shallow water habitat at the Martinez Regional Shoreline, but requires Caltrans to provide only 1.3 acres to mitigate the impacts of the Carquinez Bridge Replacement and Retrofit Project, Caltrans and/or the East Bay Regional Park District may phase the 17-acre restoration project. However, Caltrans must provide a minimum of 1.3 acres of tidally-influenced, shallow water habitat in the first phase. The mitigation plan and program shall include a schedule and the phasing of the mitigation indicating when fill, dredging or grading will occur, the time to be allowed for settlement, the time when levee breaches or inlet structures will begin to function and the time when planting will occur. The program shall include an estimate of the extent of expected sedimentation over a ten-year period; and
- g. Monitoring. Caltrans shall be responsible for monitoring the 1.3-acre mitigation site for ten years after it has completed the mitigation and restoration project. Such monitoring shall include measuring the water quality, soil characteristics, plant survival and plant growth rates, and shall be substantially consistent with the monitoring requirements identified in the restoration report entitled "Martinez Regional Shoreline Salt Marsh Enhancement: Conceptual Plan Elements", dated September 8, 1998, and prepared by Philip Williams and Associates, LTD. At the end of ten years, the Commission reserves the right to evaluate and determine whether Caltrans shall continue to monitor the 1.3-acre mitigation site up to an additional five years. Should the Commission or other state and federal resource agencies identify adverse conditions, Caltrans shall take corrective action as specified by or on behalf of the Commission or in consultation with other state and federal resource agencies.
- 2. Hold Harmless Agreement. Caltrans shall ensure that the restoration plan meets the requirements of the Martinez Public Works Director who has jurisdiction over the site and the surrounding area. Caltrans shall provide a letter to the Commission indicating that the City of Martinez has reviewed and approved the restoration plan and program. Caltrans agrees to indemnify, defend and save harmless the Commission and its employees from any and all claims, demands, losses or judgments accruing or resulting to any person, firm, corporation or entity who may be injured or damaged by work performed in accordance with the terms and conditions of this permit.
- 3. Mitigation Work. Prior to December 31, 2003, Caltrans shall undertake grading, introduction of tidal action, planting of marsh plants if needed, and monitoring, all in accordance with the mitigation plan for the 1.3-acre mitigation site submitted to, reviewed, and approved by or on behalf of the Commission.
- 4. East Bay Regional Park District Involvement. If the East Bay Regional Park District wishes to complete any portion of the remaining 15.7 acres of wetland restoration in a subsequent phase, it shall be subject to the requirements of Special Conditions II.D.1.a. through II.D.1.g herein and must submit a restoration plan and program for its portion of the work to be approved by or on behalf of the Commission prior to commencing restoration work.

E. Horizontal Control Points. As shown on plans required by Special Condition II-A, Caltrans shall install a minimum of four permanent horizontal control points of a type and at specific locations at the Carquinez Bridge site approved by or on behalf of the Commission. Caltrans shall place these control points under the supervision of a registered civil engineer or land surveyor, and shall be accurately located and mapped in relation to each other, to the closest known existing control point or other acceptable fixed point in the project area, and to the limits of any proposed fill in the Bay. Caltrans shall locate these control points to facilitate field checking, with simple equipment, of the limits of the fill authorized pursuant to this authorization. Such fill limits shall be dimensioned from these control points, or, if the scale of the drawing is adequate, it shall carry a note stating that field dimensions may be scaled from the drawing and the accuracy of such scaling, e.g., "Field dimensions to an accuracy of ± may be scaled from the drawing." Caltrans shall clearly show these control point locations on all plans submitted pursuant to Special Condition II-A

F. Dredging

- 1. Water Quality. At least 20 days prior to the commencement of any dredging or disposal episode authorized herein, Caltrans shall submit to the Executive Director water quality certification or waiver of water quality certification from the California Regional Water Quality Control Board, San Francisco Bay Region, for that episode. Failure to obtain such certification or waiver of certification prior to the commencement of the dredging episode shall terminate the Commission's authorization for that dredging episode.
- 60-Month Permit for Dredging. Caltrans shall complete the approximately 14,000 cubic
 yards or less of new dredging and dispose of the material at an upland location outside
 the Commission's jurisdiction, as authorized by this permit, within 60 months of the
 date of issuance. No further dredging or in Bay disposal is authorized by this permit.
- 3. Barge Overflow Sampling and Testing. Results of any effluent water quality or other testing required by the San Francisco Bay Regional Water Quality Control Board shall be submitted in writing by Caltrans to the Commission's office at the same time that such testing is submitted to the Regional Board.
- G. Morsh Protection. Caltrans shall perform the work authorized by this permit in a manner that will prevent any significant adverse impact on any tidal marsh or other sensitive wetland resources, unless already provided for as part of the project mitigation required under Special Condition II-C. If any unforeseen adverse impacts occur to any such areas not accounted for under Special Condition II-C as a result of the work authorized herein, Caltrans shall restore the area to its previous condition, including returning the disturbed area to its original elevation and soil composition and, if the area does not revegetate to its former condition within one year, Caltrans shall seed all disturbed areas with appropriate marsh vegetation.
- H. Hazardous Materials Removal and Remediation. Caltrans shall ensure that it performs any removal, remediation, encapsulation or disposal of hazardous or toxic materials, such as lead-based paint, consistent with the requirements of the U.S. Environmental Protection Agency and any other applicable local, state and federal laws.
- I. Non-Point Source Pollution Control. Caltrans shall implement all appropriate and necessary best management practices (BMPs) to minimize the discharge of nonpoint source pollutants to the Bay during and after construction. The BMPs shall be consistent with applicable local, state and

federal laws and any required NPDES permits and stormwater pollution prevention plans. The final post construction BMPs and the conceptual construction BMPs shall be shown on the plans required under Special Condition II-A. The final construction BMPs may be developed by the contractor and shall be approved by or on behalf of the Commission prior to the onset of the rainy season.

- J. Debris Removal. Caltrans shall ensure that it removes all construction debris to a location outside the jurisdiction of the Commission. In the event that any such material is placed in any area within the Commission's jurisdiction, Caltrans shall remove such material, at its expense, within ten days after it has been notified by the Executive Director of such placement.
- K. Construction Operations. Caltrans shall ensure that it performs all construction and repair operations to prevent construction materials from falling into the Bay. In the event that such material escapes or is placed in an area subject to tidal action of the Bay, Caltrans shall immediately retrieve and remove such material at its expense.
- L. Creosote Treated Wood. Caltrans shall not use any new pilings or other new wood structures that have been pressure treated with creosote in any area subject to tidal action in the Bay or within the Commission's jurisdiction as part of the project authorized herein.
- M. Commission Jurisdiction Over Fill Area. Notice is hereby given that, under the McAteer-Petris Act, the area of the approved project that is within the Commission's jurisdiction under Section 66610(a) remains within that jurisdiction even after fill or a substantial change in use, authorized by the Commission, may have changed the character of the area; so that Caltrans will require further action by or on behalf of the Commission prior to any future change of use or work within areas filled pursuant to this authorization.
- N. Abandonment. If, at any time, the Commission determines that Caltrans has abandoned the improvements in the Bay authorized herein for a period of two years or more, or have deteriorated to the point that public health, safety or welfare is adversely affected, the Commission may require that Caltrans, its assigns or successors in interest remove the improvements within 90 days or such other reasonable time as the Commission may direct.
- O. Disabled Access. To the maximum extent feasible, Caltrans shall design and construct all uses and improvements authorized herein to provide disabled access consistent with the local, state and federal disability laws, including the Americans with Disabilities Act.
- P. Recording. Caltrans shall record this document or a notice specifically referring to this document with Solano or Contra Costa County within 30 days after execution of the permit issued pursuant to this authorization and shall, within 30 days after recordation, provide evidence of recordation to the Commission.

III. Findings and Declarations

This permit is issued based on the Commission's findings and declaration that the authorized work is consistent with the McAteer-Petris Act, and the San Francisco Bay Plan, the California Environmental Quality Act, and the Commission's amended management program for the San Francisco Bay segment of the California coastal zone for the following reasons:

A. Use. The San Francisco Bay Plan Map No. Two designates portions of the southern shoreline, east of the 1958 bridge, as a water-related industrial priority use area, and portions of the northern shoreline, east of the 1958 bridge, as a park priority use area. Bay Plan Map No. Two designates the Carquinez Bridge and the I-80 approaches on both sides of the Carquinez Strait as

scenic drives. The proposed project will not encroach within either of these priority use areas. Bay Plan Map No. Two also designates the Martinez Regional Shoreline as a park priority use area. Caltrans will create tidally-influenced, shallow water habitat at the Martinez Regional Shoreline. The mitigation will not have an impact on existing public access and will enhance the park experience. Therefore, the Commission finds that the mitigation work is consistent with the park priority use designation.

B. Fill. Section 66605 of the McAteer Petris Act states that further filling of San Francisco Bay should be authorized only when public benefits from fill clearly exceed public detriment from the loss of water areas and should be limited to water-oriented uses, including bridges. In addition, the Commission should authorize fill only when no alternative upland location is available, the fill is the minimum amount necessary, and the nature, location and extent of fill minimizes the harmful effects to the Bay.

Caltrans will place a total of approximately 8,890 cubic yards of solid fill covering approximately 24,000 square feet of Bay surface area, approximately 5,230 cubic yards of pile-supported fill covering approximately 43,560 square feet of Bay surface area and approximately 336,000 square feet of suspended fill. Because Caltrans will remove the 1927 span, including the footings for the transition pier, the southern pier and the ship protection, will remove the construction trestles, and will remove some dilapidated creosote pier structures, the net increase in Bay fill at the project site will be approximately 5,290 cubic yards of solid fill covering approximately 10,715 square feet of Bay surface area, 3,555 cubic yards of pile-supported fill covering approximately 12,450 square feet of Bay surface area and approximately 202,000 square feet of suspended fill.

The Carquinez Bridge Replacement project will have several significant public benefits including: (a) improving public safety by replacing the 1927 span with a new span that meets current seismic design and traffic safety standards; (b) injecting approximately \$300 million into the local and state economy; (c) providing approximately four acres of public access including a critical pedestrian and bicycle link across the Carquinez Strait and two improved vista points on each side of the Strait; (d) creating approximately 1.3 acres of tidally-influenced, shallow water habitat for project mitigation; and (e) encouraging the use of carpools and alternative modes of transportation. The McAteer-Petris Act and the San Francisco Bay Plan identify bridges as water-oriented uses. There is no practical alternative upland location for the replacement bridge as it provides a vital east-west link across the Carquinez Strait. The amounts and purpose of fill are as follows:

- 1. Permonent Fill To Remain. Caltrans will place approximately 8,890 cubic yards of solid fill covering approximately 24,000 square feet of Bay surface area for the main pier and tower foundations and the south end, transition pier foundation. Caltrans will also place approximately 4,670 cubic yards of pile-supported fill covering approximately 15,460 square feet of Bay surface area for the fender systems to protect the main bridge piers. Approximately 336,000 square feet of high-level suspended fill will be required for the replacement bridge deck which will sit approximately 150 feet above the water.
- 2. Temporary Fill To be Removed. On the southern shoreline, Caltrans will use a temporary access roadway from the existing grade crossing near the Crockett Striped Bass Club and the Nantucket Restaurant. Caltrans will extend this roadway along the shoreline and over the UPRR tracks from the construction staging area near the Crockett-Valona treatment plant to approximately 1,000 feet east of the 1927 bridge. Caltrans

will need approximately 140 cubic yards of pile-supported fill covering approximately 17,100 square feet to extend the construction access trestle into the Strait from the new bridge transition pier to the south main tower foundation area. On the northern shoreline, Caltrans will construct an access roadway from the California Maritime Academy parking lot on Maritime Academy Drive to the new bridge alignment within the 100-foot shoreline band. Caltrans will need approximately 420 cubic yards of pile-supported fill covering approximately 11,000 square feet of Bay surface area to extend the access trestle into the Strait to the north main tower foundation area.

Both access trestles will be in place for an extended period of time. However, Caltrans will completely remove both of these structures following construction. Caltrans is exploring opportunities for a local jurisdiction to assume maintenance responsibility for that portion of the northern construction access roadway that falls within the 100-foot shoreline band and leave it in place for public access.

3. Removal of Existing Fill. Caltrans will remove the existing 1927 bridge. This will include removal of approximately 134,000 square feet of high-level suspended fill for the bridge deck, removal of approximately 190 cubic yards of solid fill covering approximately 2,530 square feet of the footing for the transition pier, removal of 2,750 cubic yards of solid fill covering approximately 1,820 square feet of the footing for the southern pier, and removal of approximately 1,115 cubic yards of pile-supported fill covering approximately 3,010 square feet of the pier protection. The transition pier will be removed to approximately two feet below original ground and the southern pier will be removed below the mudline. Caltrans proposes to develop the removal method and present it to the Commission for its concurrence after issuance of a permit. Caltrans will retain and use the northern and center pier footings of the 1927 bridge as part of a combined bridge fender system to provide ship impact and pier protection for the replacement bridge and the 1958 bridge. If Caltrans were to remove and replace the center and northern footings and install new ship protection, rather than retain the 1927 footings as ship protection, it would cost an additional \$35.7 million. Removal of the 1927 footings will increase the Bay surface area by only 3,290 square feet, but will actually result in a decrease in the volume of the Bay by 24,777 cubic yards.

Along the southern shoreline, Caltrans will also remove approximately 660 cubic yards of solid fill in the form of rotten, creosote pier debris covering approximately 8,935 square feet of Bay surface area. The pier debris will be removed to approximately two feet below original ground.

Special Conditions II-A, II-C, II-E, and II-G through II-Q are necessary to ensure that the Bay fill will not adversely impact Bay-related resources and endangered species. Therefore, as conditioned, the Commission finds that the public benefits of the fill outweigh the public detriment and that the fill is consistent with Section 66605 of the McAteer-Petris Act.

C. Mitigation. In part, the Bay Plan policies on mitigation state that mitigation for the unavoidable adverse environmental impacts of any Bay fill should be considered by the Commission in determining whether the public benefits of a fill project outweigh the public detriment from the loss of water areas due to the fill. Whenever mitigation is necessary the mitigation program should

assure: (a) that the benefits from the mitigation would be commensurate with the adverse impacts on Bay resources; (b) that the mitigation would be at the project site or as close as possible; (c) that the mitigation measures would be carefully planned, reviewed and approved by or on behalf of the Commission, and subject to reasonable controls to ensure success, permanence and long-term maintenance; and (d) that the mitigation would, to the extent possible, be provided concurrently with those parts of the project causing adverse impacts.

After removal of the 1927 bridge and other shoreline structures, the Carquinez Bridge Replacement project will result in a net increase of approximately 8,845 cubic yards of Bay fill covering approximately 225,165 square feet of Bay surface area. This will include approximately 5,290 cubic yards of solid fill covering approximately 10,715 square feet of Bay surface area, 3,555 cubic yards of pile-supported fill covering approximately 12,450 square feet of Bay surface area and 202,000 square feet of suspended fill.

Generally, the adverse impacts of fill for the construction of a bridge and the construction of access trestles include: (a) the disruption and displacement of existing benthic communities; (b) the creation of shade, which can affect water and soil temperature and influence an area's plant and animal communities; (c) the dampening of wave energy and the creation of eddies which can alter water circulation and increase the rate of sedimentation; and (d) the disruption of animal use of an area and animal movement between areas.

More specifically, the project fill will impact approximately 0.14 acres of shallow water habitat which are less than 10 feet in depth. State and federal resource agencies have designated shallow water areas as critical habitat for the federally and state-listed threatened Delta smelt and federally-listed endangered winter-run chinook salmon, and as sensitive habitat for the federally-proposed endangered Central Valley steelhead and Sacramento splittail, a State species of special concern. In addition, there will be approximately 920 square feet of encroachment into the engineered drainage channel near the southern bridge abutments outside of the Commission's jurisdiction. The suspended fill will not result in any significant impacts to Bay-related resources as it will be approximately 150 feet above the Bay and will not cast any substantial shadows. As a result, the Bay fill impacts will be approximately 0.56 acres, in addition to the impacts to 0.14 acres of shallow water habitat.

For the majority of bridge projects, the Commission has required mitigation including:

(a) enhancing habitat values in existing degraded tidal marshes by excavating channels and improving tidal circulation. Such enhancements projects always involve improvements to significantly larger areas than that covered by a bridge; (b) contributing funds on a pro-rata basis to a mitigation bank where the amount of the contribution is directly related to the cost of acquiring, restoring, monitoring and maintaining an area as tidal wetland habitat; and (c) excavating an adjoining upland to create a tidal marsh equal or greater in size to the area of the Bay covered by the proposed bridge.

Caltrans will mitigate the fill impacts consistent with the requirements of the United States and Wildlife Service (USFWS), the National Marine Fisheries Service (NMFS), the United States Army Corps of Engineers (USACE) and the California Department of Fish and Game (CDF&G). Caltrans will provide on-site mitigation at a 2:1 ratio for impacts to the engineered drainage under the southern bridge approach. Impacts to juvenile fish habitat will be mitigated at 3:1 and the impacts of Bay fill will be mitigated at 1:1 to ensure no net loss.

Caltrans will provide mitigation at the Martinez Regional Shoreline Park in the City of Martinez between the UPRR tracks and Industrial Way. The EBRPD owns the site and jointly operates it with the City of Martinez. Caltrans and the City of Martinez will widen and deepen Alhambra Creek and provide flood terraces as part of a City storm drainage capacity enhancement project. In addition, Phillip Williams and Associates, LTD., Caltrans' consultant, has developed a grading plan for the area to the west of the Creek to remove artificial fill that has historically been sidecast in various locations to create a tidal slough channel system that will support a tidal marsh wetland. The network of slough channels will be designed to be self-scouring. Salt marsh vegetation will be provided along the margins of the channels and over the restored marsh plain. At full buildout, the mitigation plan for the Martinez Regional Shoreline will provide up to 17 acres of shallow water habitat and will be phased. The first phase, which focuses on widening Alhambra Creek, will provide approximately nine acres of shallow water habitat and provide for juvenile fish nursery or rearing areas. Of the nine acres, Caltrans will provide 1.3 acres to satisfy the resource agencies' mitigation requirements for the Bay fill impacts and shallow water habitat impacts of the Carquinez Bridge Replacement and Retrofit Project. Funding and agreements are in place between Caltrans, EBRPD and the City of Martinez to complete the initial phase of the wetland restoration by December 31, 2003. Caltrans would like to use the remaining acreage of habitat creation to satisfy potential mitigation requirements for other projects such as the Benicia-Martinez Bridge Project. The USFWS, NMFS, USACE and CDFG have reviewed and have conceptually approved the Administrative Draft Final Mitigation Plan for the Martinez Regional Shoreline. The Commission may consider allowing Caltrans to use the excess mitigation as credit towards other projects that result in the placement of Bay fill such as the Benicia-Martinez Bridge Project. However, Commission authorization to create 17 acres of tidally-influenced, shallow water habitat at the Martinez Regional Shoreline in no way indicates or otherwise grants approval of mitigation. for other projects. Such projects must be evaluated on and individual, case by case basis and the mitigation requirements determined after a thorough analysis of the project impacts.

Because EBRPD is the owner of the proposed mitigation site, it has agreed to become a partial co-applicant to Caltrans' permit application for the Carquinez Bridge Replacement Project. However, EBRPD is doing so only for the mitigation work at the Martinez Regional Shoreline. The Park District will not have any responsibility or liability for the Carquinez Bridge Replacement Project. Pursuant to a Memorandum of Agreement between the EBRPD, Caltrans and the City of Martinez, Caltrans will be responsible to fund all costs of the 1.3-acre mitigation requirement, prepare the plans, specifications and estimates, construct the mitigation, and monitor and provide corrective measures as deemed necessary by state and federal resource agencies.

In addition to the mitigation at the Martinez Regional Shoreline, Caltrans will revegetate all areas disturbed by construction in accordance with the mitigation measures in the Final EIS. Caltrans will design all landscape plans for the project in cooperation with local city and county agencies and any community groups who have an interest in the project. Caltrans will also work with Contra Costa County and the Carquinez Bridge Community Advisory Committee to develop a plan for the treatment of excess lands following construction.

Special Conditions II-C and II-D are necessary to ensure that the project will provide I.3 acres of mitigation in perpetuity to offset the project impacts to Bay-related resources and endangered species and that the creation of shallow water habitat will be adequately designed and monitored to ensure long-term success. Therefore, as conditioned, the Commission finds that the amount and kind of mitigation is sufficient to offset the fill impacts of the Carquinez Bridge Replacement Project.

D. Public Access. Section 66602 of the McAteer-Petris Act states that existing public access to the shoreline and waters of the San Francisco Bay is inadequate and that maximum feasible public access, consistent with a proposed project, should be provided. In part, the Bay Plan policies on public access state that whenever public access to the Bay is provided as a condition of development, on fill or on the shoreline, the access should be permanently guaranteed, should be consistent with the project and the physical environment, and should provide for the public's safety and convenience. In addition, public access should be designed and built to encourage diverse Bay-related activities and movement to and along the shoreline, should permit barrier free access for the physically handicapped to the maximum feasible extent, should include an ongoing maintenance program and should be identified with appropriate signs.

In the project vicinity there is limited physical access to the Carquinez Strait. Access along the southern shoreline is limited by the UPRR right-of-way that runs along the shoreline, the C&H Sugar Refinery and the Crockett-Valona Sanitary District treatment plant. Limited point access is available from the Crockett Striped Bass Club and the Nantucket Restaurant, which are both private commercial establishments. On the north side of the bridges, the steep shoreline makes access to the Strait extremely difficult, although point access is available at the California Maritime Academy. Views up and down the Carquinez Strait from the shoreline are available from the Glen Cove development, California Maritime Academy, and Benicia State Recreation Area on the north, and from the community of Crockett and the Carquinez Strait Regional Shoreline Park on the south.

In considering whether a project provides the maximum feasible public access, the Commission should consider physical and visual access to the Bay shoreline, as well as the appearance and design of shoreline structures. To address the Commission's requirements for public access, Caltrans will construct approximately four acres of new public access including a bicycle and pedestrian lane on the new bridge, bicycle and pedestrian access facilities at each end of the bridge, two new vista points and additional vehicle staging and access facilities for the north vista point (see Exhibits M, N, O and P). All of the public access improvements will be disabled accessible. Caltrans or local park districts own all of the required public access areas and Caltrans will guarantee the availability of the public access areas. The specific public access amenities are as follows:

1. Physical Access. While the existing Carquinez Bridges offer no physical access for bicycles and pedestrians, the replacement bridge will provide a connection for both commuters and recreational users between the proposed Ridge and Bay Trails on the north shore and the proposed Carquinez Strait Regional Trail on the south. A new, twelve-foot-wide, bicycle and pedestrian lane will run the length of the replacement bridge, with access from San Pablo Avenue along the westbound off-ramp on the south end of the bridge and at-grade from Maritime Academy Drive and then along I-80 to the bridge on the north end. A retaining wall will be constructed to enable widening of I-80 to accommodate and support the bicycle and pedestrian lane in this segment.

Within Carquinez Park, Caltrans will improve the existing paving for motor vehicle parking and provide picnic benches. Caltrans will also participate with the Greater Vallejo Recreation District in developing a trail head that will define the relationship of the Carquinez Park and the bicycle and pedestrian path to the existing and proposed Bay Trail system.

2. Visual Access. Caltrans proposes to provide visual access with two new vista points at both the north and south ends of the bridges. One vista point will be on the northern shoreline just west of the Carquinez Bridges in the approximate location designated on Bay Plan Map No. Two. The vista point will provide pedestrians and bicyclists with new view opportunities of the Carquinez Bridge and Crockett to the south, of San Pablo Bay to the west, and of the Carquinez Strait to the west and east. The other vista point will provide access for motor vehicles, bicycles and pedestrians, and will offer views of San Pablo Bay to the west, Mare Island to the north, and the Carquinez Strait and the Carquinez Bridge to the north and east.

The two proposed vista points will provide an additional 1.24 acres of new public access. The northern vista point, which will be located near the PG&E transmission towers on the hillside overlooking the Carquinez Strait, will be accessible only by pedestrians and bicyclists because of the steep terrain. Caltrans has worked with the Greater Vallejo Recreation District to develop vehicular staging and improved recreational trail access to this vista point outside of the Commission's jurisdiction. Caltrans will construct a new all weather path that will close the gap between Carquinez Park on Sonoma Boulevard in the City of Vallejo and the new I-80 and Carquinez Bridge bicycle and pedestrian lane terminus at Maritime Academy Drive.

The southern vista point will be on the southern shoreline in a location that serves local and regional trail planning. It will enhance the East Bay Regional Park District's trail that is planned to start at San Pablo Avenue near the vista point and continue to and along the UPRR tracks on the southern shore. ABAG's Bay Trail Plan proposes regional bicycle and pedestrian trails along San Pablo Avenue, the UPRR (formerly SP) right-of-way, and Carquinez Scenic Drive along the southern shoreline, and across the Strait continuing up State Route 29 to the north. Also, Contra Costa County is designing a restriping project for a Class II bike path that will run along San Pablo Avenue from Crockett to Rodeo. This southern vista point will provide parking for eight vehicles, including one handicapped vehicle space, three bus spaces, and spaces for four automobiles.

In additional to the vista points, Caltrans has worked closely with the Commission's Design Review Board in developing the aesthetic design treatments for the bridge railing and the traffic barrier to ensure the maximum transparency and views for motorists, bicyclists and pedestrians. For continuity of design, the traffic barrier will run continuously from the bridge deck to the end of the bicycle and pedestrian lane at both ends of the project.

3. Appearance and Design. As a result of the Carquinez Bridge Replacement project, there will be several significant visual changes along the Carquinez Strait. Within the Strait, the project will introduce a new suspension bridge approximately 96 feet west of the existing 1927 bridge, and will remove the 1927 superstructure and towers following construction. The concrete pedestals of the existing northern and center pier foundations will remain at the height of the existing fender system, approximately twelve feet above the water line and will be incorporated into the ship protection systems. The north main tower associated with the new suspension bridge will not align with the towers and piers of the existing bridges, but will be off-set approximately 44.6 feet

closer to the shoreline. Caltrans has incorporated the recommendations of the Commission's Design Review Board to achieve design consistency between the super-structure and the approach structures, to bring the design details of the towers down to the railings and other bridge elements and to maximize motorist and pedestrian views from the bridge.

On the northern end of the bridges there will be visual changes from the removal of the Caltrans maintenance facility west of I-80 and the construction of a retaining wall up to 20 feet in height and 500 feet in length on the west side of I-80. On the southern end, visual changes will include the rebuilding of the on and off-ramps immediately south of the existing bridges, but in a somewhat different configuration than exists today. The eastbound onramp will be retrofitted. Other visual changes will include the addition of a pedestrian and bicycle ramp, and the removal of nearby housing.

Negative visual changes from the project will occur mainly in foreground views from residences in very close proximity. The project will make positive visual changes and substantially increase visual access to the Strait by introducing two new vista points, one on the north shoreline and one on the south, by removing the Caltrans maintenance facility and removing dilapidated pier structures along the shoreline.

The new bicycle and pedestrian facilities and vista points, in concert with regional trail planning, will enhance and increase the public's use of the Carquinez shoreline. The additional vehicle staging and bicycle and pedestrian access facilities that Caltrans will provide in conjunction with improvements at the Greater Vallejo Recreation District's Carquinez Park are expected to further increase usage of the northern vista point and the park. While the Design Review Board found that the project provides the maximum feasible public access consistent with the project, it has requested that Caltrans return for another review after project authorization so that it may evaluate the final design details for the bridge railing, the traffic barrier, bridge towers, the vista points and other public access improvements upon which the Board has not yet reached consensus. The review will not include structural elements, except as it may pertain to the bridge railings.

Special Conditions II-A, II-B and II-P are necessary to ensure that the project provides approximately four acres of new public access, including a vital pedestrian and bicycle link across the Carquinez Strait, and that the access is dedicated, maintained, ADA compliant, and designed consistent with the recommendations of the Commission's Design Review Board. Therefore, as conditioned, the Commission finds that the project provides the maximum feasible public access consistent with the project.

E. Transportation. In part, the Bay Plan policies on transportation state that if a route must be located across a waterway, the following provisions should apply: (a) the crossing should be placed on a bridge or in a tunnel, not solid fill; (b) structures should provide adequate clearance for commercial ships, Navy ships, and pleasure boats to have uninterrupted passage at all times; (c) toll plazas, service yards, or other ancillary features should not be located on new fill; (d) to provide maximum ultimate capacity on any new route that is allowed over or under a waterway

(and thus to minimize the number that have to be allowed in the Bay), the design of the route should, if feasible, accommodate future mass transit facilities and subsequent installation of automatic power and guidance elements for vehicles.

The replacement crossing of the 1927 span will be a suspension bridge. The only solid fill Caltrans will need is the approximately 8,890 cubic yards of fill covering approximately 24,000 square feet of Bay surface area for the pier foundations. In addition, Caltrans will need approximately 4,670 cubic yards of pile-supported fill covering approximately 15,460 square feet of Bay surface area to construct the ship protection structures around each pier footing. The United States Coast Guard has determined that the replacement bridge will not impact marine traffic. The existing toll plaza, which is located outside of the Commission's jurisdiction, will not be affected by the replacement project. The existing Caltrans service yard, which is also located outside of the Commission's jurisdiction, will be relocated to an inland area in the City of Vallejo. No other ancillary features will be located within the Commission's jurisdiction.

With the cooperation of local and regional transportation agencies, Caltrans evaluated the opportunities and constraints for providing light and heavy rail transit as part of the Carquinez Bridge Replacement Project. As a result, Caltrans included accommodations for future light rail transit (LRT) on the replacement bridge, which will be constructed to provide adequate structural capability as well as necessary grounding for stray electrical current (see Exhibit Q). Caltrans also estimated the cost and other requirements of accommodating rail transit across the Carquinez Strair in both light rail and heavy rail configurations.

To meet the requirements of Regional Measure One and respond to requests from local officials and BCDC staff, Caltrans studied the potential to accommodate future rail transit. A 1997 Solano Transportation Authority report concluded that the potential exists to connect Napa and Vallejo to the Capital Corridor and BART by light rail transit service via the new Carquinez Bridge. The Solano and Contra Costa County Transportation Authorities, the Congestion Management Agencies (Joint CMA) and the City of Vallejo requested that Caltrans determine: (a) whether providing stronger foundations and a superstructure on a new highway bridge for future rail transit warrants an incremental investment now to avoid an expected higher cost in the future; and (b) where best to secure funding for the incremental cost to accommodate future rail transit.

A rail connection across the Carquinez Bridge is not identified in the Metropolitan Transportation Commission's (MTC's) Regional Transportation Plan. Accommodation of future rail transit across the Carquinez Strait must be viewed in the context of future employment and population growth, future freeway congestion, and potential future ridership. MTC recently considered these issues in a study of the I-80 Corridor. The MTC study analyzed a number of highway and transit alternatives in the future year 2010 and concluded that a rail transit connection at the Carquinez Bridge was not the most desirable strategy within that time frame. Instead, the I-80 Corridor Study recommended increasing intercity rail service on the Capitol Corridor route, completion of the carpool lanes planned between the Bay Bridge and the Carquinez Bridge, and the enhancement of existing express bus services.

Caltrans conducted a 2025 patronage forecast to determine ridership if BART service were extended to Vallejo via a Carquinez Bridge connection. In contrast to the MTC transit ridership projections provided in the I-80 Corridor Study, Caltrans used an update of the incremental computer model that BART used for its 1992 Extension Service Plan Study. The results indicated that if BART were extended to two stations in Vallejo, there will be over 17,700 daily and 2,700

peak hour trips over the Carquinez Strait on Bart in 2025. Adjusted for growth between 1995 and 2025, these daily volumes are about 85 percent of the daily on and offs at the El Cerrito del Norte station in 1995. In addition to forecasting future rail ridership, Caltrans worked with the local agencies, Solano Transportation Authority, Contra Costa Transportation Authority, and MTC in developing the economic studies to determine the feasibility of accommodating future rail across the Carquinez Strait.

1. Light Rail on the Replacement Bridge. The replacement bridge will include three mixed-flow traffic lanes in the westbound direction, a carpool lane, two standard shoulders, and a pedestrian and bicyclist lane. Accommodation for future light rail transit on a replacement bridge within the proposed bridge width of 82 feet will require an additional investment at the time of bridge construction and modifications to the replacement bridge when future rail service is initiated. Since LRT structural design requirements for the Carquinez Bridge Project are similar to those for highway use, the only additional expense required now to accommodate future light rail will be to ground the structural steel to avoid stray electrical current in the bridge. According to Caltrans, the incremental cost to provide this modification will be approximately \$250,000. In light of this finding, the Solano Transportation Authority adopted a resolution supporting this improvement to accommodate future LRT on the replacement Carquinez Bridge. Caltrans has now included this provision for LRT in the replacement bridge. The resolution also requested that MTC and the California Transportation Commission (CTC) support this approach. At such time that LRT is placed on the bridge, there would be additional costs to install the rails and associated facilities.

It is important to note that adding rail to accommodate LRT on the replacement bridge would take space away from other traffic uses. Standard width lanes and shoulders would have to be narrowed to add one rail track. To add two rail tracks, standard width lanes and shoulders would have to be narrowed and a travel lane would have to be eliminated. At this time, Caltrans cannot assure future approval of such roadway reductions. It is possible that transportation agencies would request the elimination of the pedestrian and bicycle lane to accommodate LRT.

2. Roil on the Existing 1927 Span. Caltrans determined that accommodating future rail transit on the existing 1927 bridge is infeasible for a number of reasons. First, the seismic design and deflection criteria for heavy rail are extremely stringent and would be difficult to meet. Second, costs to accommodate a single heavy rail track would probably add an additional \$25 million or more to the \$120-million cost of preserving and retrofitting the bridge. Caltrans believes that strengthening the bridge to accommodate two rail tracks would be physically infeasible. Further, BART and other transit operators are unlikely to find a 70-year old bridge acceptable for a new rail line, and are likely to seek a newer bridge for that purpose. A major consideration is that retrofit of the 1927 bridge will not prevent a major seismic event from causing substantial damage requiring extended or even permanent bridge closure. Even without a major earthquake, the retrofit strategy will extend the bridge's service life by only about 30 years, at which point the bridge will have to be replaced or retrofitted again.

3. Heavy Rail on a New Span. The replacement bridge on the proposed western alignment will not preclude the addition of a separate heavy rail transit bridge on the site of the existing 1927 bridge when needed. Following removal of the 1927 bridge superstructure and towers, adequate space will be left for BART to build a separate heavy rail bridge between the 1958 bridge and the new suspension bridge. Caltrans estimates the cost of a heavy rail transit bridge to be approximately \$134 million in 1996 dollars (about \$37 million for the foundation alone). Heavy rail on a separate new bridge is consistent with the desires of BART and the conclusions of the I-80 Corridor Study by MTC that call for rail to run in the median of I-80. Given that it will be quite some time before potential heavy rail patronage warrants extension of BART across the Carquinez Strait and given the very substantial costs involved in extending BART that far, Caltrans believes that accommodating LRT on the replacement bridge and providing opportunities for heavy rail on a separate new bridge is the most prudent long-term strategy.

Caltrans and other transit agencies have not identified any project funding to accommodate a future rail transit connection across a replacement bridge other than the LRT provisions included in the Carquinez Bridge Project. The decision to implement any other rail accommodation option will be based on funding and on the time required to accomplish the necessary design and construction activities.

Because the bridge design will minimize fill in the Bay, will provide adequate clearance for waterborne vessels, will not impact navigational safety, will include improvements to accommodate light rail transit on the replacement bridge, and will reserve an area between the replacement bridge and the 1958 bridge for a future heavy rail bridge, the Commission finds that the project is consistent with Bay Plan policies on Transportation.

F. Dredging. In part, the Bay Plan policies on dredging state that dredging should be authorized when the Commission can find that: (a) the applicant has demonstrated that the dredging is needed to serve a water-oriented use or other public purpose; (b) the materials to be dredged meet the water quality requirements of the San Francisco Regional Water Quality Control Board; and (c) important fisheries and Bay natural resources will be protected. In addition, the disposal of dredged materials should be encouraged in non-tidal areas where the materials can be used beneficially, or in the ocean.

Caltrans proposes to dredge a total of 14,000 cubic yards of material over an approximately 6,460-square-foot area to construct the new bridge tower foundations and install the fender piles. The replacement bridge, which is a water-oriented use under the McAteer-Petris Act and the San Francisco Bay Plan, is necessary to meet current seismic and traffic safety requirements. No dredging will be required for the access trestles. Caltrans performed testing and analysis of the dredge sediments under the requirements of the Dredge Materials Management Office. Caltrans completed the Investigation Report in December, 1996. Although the report concludes that the materials will be appropriate for disposal at the approved, Carquinez Strait aquatic disposal site, Caltrans will dispose of the materials at an approved upland site consistent with the Regional Water Quality Control Board's 401 permit. Caltrans received its 401 permit from the RWQCB on April 20, 1998. Caltrans may retain some excavated material for reuse as backfill.

The USACE is currently processing Caltrans' Section 404 (Clean Water Act) permit. Caltrans has concluded its formal consultation with the USFWS and the NMFS under Section 7 of the Endangered Species Act and has agreed to construct in shallow water habitat only between December 1 through March 31 to minimize impacts to the Delta smelt, the Sacramento splittail, the winter-run chinook salmon and the Central valley steelhead. The dredging will occur as follows:

- 1. Transition Pier. Placement of the south side transition pier foundation will be accomplished within a sheet pile coffer dam. Excavation of soil and rock from within the sheet pile will be performed by back hoe or clam shell. A concrete seal slab will be laid at the bottom of the excavation prior to placing the foundation reinforcement and concrete. Caltrans will dredge approximately 2,400 cubic yards of soil and rock from an approximately 2,150-square-foot area for the transition pier.
- 2. Main Tower Foundations. The foundations for each of the two main towers will be placed using a pre-cast concrete footing form that contains a template for the placement of the footing piles. The form will be floated out to the location of each pier foundation and twelve, ten-foot-diameter hollow steel shell piles per tower footing will be pushed through the template and Bay mud to the rock below. Two, nine-foot rock sockets will be drilled past the tip of the steel casings. The concrete footing form will serve as a stationary floating work platform. Caltrans will then extract the soil and rock from the hollow piles with a drill rig, rotary augers, and/or full face rotary bit drill or similar equipment. Any soil, rock or concrete that spills during extraction operations will be caught and contained in the floating footing form for collection and removal. At the south tower only, it will be necessary to excavate about seven feet down to enable the footing form to be floated into position. Excavation will be performed by clam shell or other similar equipment. Combined, Caltrans will dredge approximately 10,100 cubic yards of soil and rock from an approximately 3,230-square-foot area for both main tower foundations.
- 3. Fenders. Placement of approximately 210 piles for the main pier fender systems will require dredging. Caltrans will place approximately 30 piles for the north side fender and approximately 180 piles for the south side. Approximately four of these will be five-foot-diameter hollow steel shell piles and about 32 will be 2-1/2-foot-diameter hollow steel shell piles, and 174 will be 1.3-foot, closed-ended pipe piles. Dredged materials will be extracted from the hollow piles using rotary augers and/or full face rotary bit drill or similar equipment. Caltrans will dredge approximately 1,500 cubic yards of material from an approximately 1,080-square-foot area for the north and south fenders.

Special Condition II-F is necessary to ensure that the dredging does not adversely impact Bay-related resources and endangered species and that the dredge material is disposed of at an approved upland location. Therefore, as conditioned, the Commission finds that the project is consistent with the Bay Plan policies on dredging.

G. Review Boards. Both the Commission's Engineering Criteria Review Board and its Design Review Board evaluated the project on several occasions.

- Engineering Criteria Review Board. The Commission's Engineering Criteria Review
 Board (ECRB) evaluated the proposed engineering criteria for the project on March 12,
 1997 and June 11, 1998 and concluded that Caltrans' design criteria for seismic safety
 were adequate.
- 2. Design Review Board. The Commission's Design Review Board evaluated the proposed project on four occasions. The Board's review focused on the physical and visual access that the project would provide. Although the Board found that the project provides the maximum feasible public access consistent with the project, it requested that, after the Commission approves the project, Caltrans return to the Board so that it could review the final design details for the bridge railing, traffic barriers, towers, view points and other public access improvements upon which the Board has not yet reached consensus. The review will not include structural elements, except as it may pertain to the bridge railings.

Special Condition II-B-1 is necessary to ensure that Caltrans returns to the Board for final design review.

H. Environmental Review. Pursuant to the California Streets and Highways Code Section 180.2 and the California Environmental Quality Act (CEQA) Section 21080, the Carquinez Bridge replacement project is statutorily exempt from the requirement to prepare an environmental impact report. CEQA Section 21080, subdivision (b) sets forth the types of activities that are excluded from CEQA and paragraph (4) of this subdivision specifically includes actions necessary to prevent or mitigate an emergency. According to the California Streets and Highways Code, as amended, the structural modification of an existing highway structure or toll bridge (Section 180.2(a)); and the replacement of a highway structure or toll bridge within, or immediately adjacent to, an existing right-of-way (Section 180.2(b)) shall be considered to be activities under subdivision (b), paragraph (4) of CEQA. Caltrans has concluded that the Carquinez Bridge Replacement Project meets the definition of Section 180.2(b)—that it is a "specific action necessary to prevent or mitigate an emergency"—and, therefore, does not require any environmental review under CEQA.

Nevertheless, pursuant to the National Environmental Protection Act and federal permitting requirements, Caltrans prepared an Environmental Impact Statement (EIS) for the proposed project. The United States Department of Transportation, Federal Highway Administration, and Caltrans, in cooperation with the United States Coast Guard, published the Final EIS in January of 1998, and the approved the Record of Decision in March of 1998. The Final EIS identified several project impacts including the displacement of residential units, the loss of wetlands, new Bay fill, noise, use of historic structures and visual effects. The EIS also imposed several mitigation measures including habitat creation, historic recordation, and aesthetic design of the new bridge and roadway structures.

- I. Public Trust. The approximately 5.2 acres of suspended, solid and pile-supported fill for the bridge is for a water-oriented use and to improve public access as defined by Section 66605 of the McAteer-Petris Act. Fill for water-oriented uses and public access is consistent with the public trust. Thus, the Commission finds that the fill is consistent with the public trust.
- J. Conclusion. For all of the above reasons, the benefits of the proposed project clearly exceed the detriment of the loss of water areas and the project will provide the maximum feasible public access to the Bay and its shoreline. Therefore, the project is consistent with the San

Francisco Bay Plan, the McAteer-Petris Act, the Commission's Regulations, and the Commission's amended management program for the San Francisco Bay segment of the California coastal zone.

IV. Standard Conditions

- A. All required permissions from governmental bodies must be obtained before the commencement of work; these bodies include, but are not limited to, the U. S. Army Corps of Engineers, the State Lands Commission, the Regional Water Quality Control Board, and the city and/or county in which the work is to be performed, whenever any of these may be required. This permit does not relieve the permittees of any obligations imposed by State or Federal law, either statutory or otherwise.
- B. The attached Notice of Completion shall be returned to the Commission within 30 days following completion of the work.
- C. Work must be performed in the precise manner and at the precise locations indicated in your applications as such may have been modified by the terms of the permit and any plans approved in writing by or on behalf of the Commission.
- D. Work must be performed in a manner so as to minimize muddying of waters, and if diking is involved, dikes shall be waterproof. If any seepage returns to the Bay, the permittees will be subject to the regulations of the Regional Water Quality Control Board in that region.
- E. The rights derived from this permit are assignable as provided herein. An assignment shall not be effective until the assignee shall have executed and the Commission shall have received an acknowledgment that the assignee has read and understood the applications for this permit and the permit itself and agrees to be bound by the terms and conditions of the permit, and the assignee is accepted by the Executive Director as being reasonably capable of complying with the terms of the permit.
- F. Unless otherwise provided in this permit, all the terms and conditions of this permit shall remain effective for so long as the permit remains in effect or for so long as any use or construction authorized by this permit exists, whichever is longer.
- G. Unless otherwise provided in this permit, the terms and conditions of this permit shall bind all future owners and future possessors of any legal interest in the land and shall run with the land.
- H. Unless otherwise provided in this permit, any work authorized herein shall be completed within the time limits specified in this permit, or if no time limits are specified in the permit, within six years. If the work is not completed by the date specified in the permit, or if no date is specified, within three years from the date of the permit, the permit shall become null and void. If a permit becomes null and void for a failure to comply with these time limitations, any fill placed in reliance on this permit shall be removed by the permittees or its assignee upon receiving written notification by or on behalf of the Commission to remove the fill.
- I. Except as otherwise noted, violation of any of the terms of this permit shall be grounds for revocation. The Commission may revoke any permit for such violation after a public hearing held on reasonable notice to Caltrans or its assignee if the permit has been effectively assigned. If the permit is revoked, the Commission may determine, if it deems appropriate, that all or part of any fill or structure placed pursuant to this permit shall be removed by Caltrans or its assignee if the permit has been assigned.

- J. This permit shall not take effect unless the permittees execute the original of this permit and return it to the Commission within ten days after the date of the issuance of the permit. No work shall be done until the acknowledgment is duly executed and returned to the Commission.
- K. Any area subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission under either the McAteer-Petris Act or the Suisun Marsh Preservation Act at the time the permit is granted or thereafter shall remain subject to that jurisdiction notwithstanding the placement of any fill or the implementation of any substantial change in use authorized by this permit.
- L. Any area not subject to the jurisdiction of the San Francisco Bay Conservation and Development Commission that becomes, as a result of any work or project authorized in this permit, subject to tidal action shall become subject to the Commission's "bay" jurisdiction up to the mean high tide line.
- M. Unless the Commission directs otherwise, this permit shall become null and void if any term, standard condition, of special condition of this permit shall be found illegal or unenforceable through the application of statute, administrative ruling, or court determination. If this permit becomes null and void, any fill or structures placed in reliance on this permit shall be subject to removal by Caltrans or its assignee if the permit has been assigned to the extent that the Commission determines that such removal is appropriate. Any uses authorized shall be terminated to the extent that the Commission determines that such uses should be terminated.

Executed at San Francisco, California, on behalf of the San Francisco Bay Conservation and

Development Commission on the date first above written.

WILL TRAVIS
Executive Director
San Francisco Bay Conservation and
Development Commission

WT/JGJ/ra

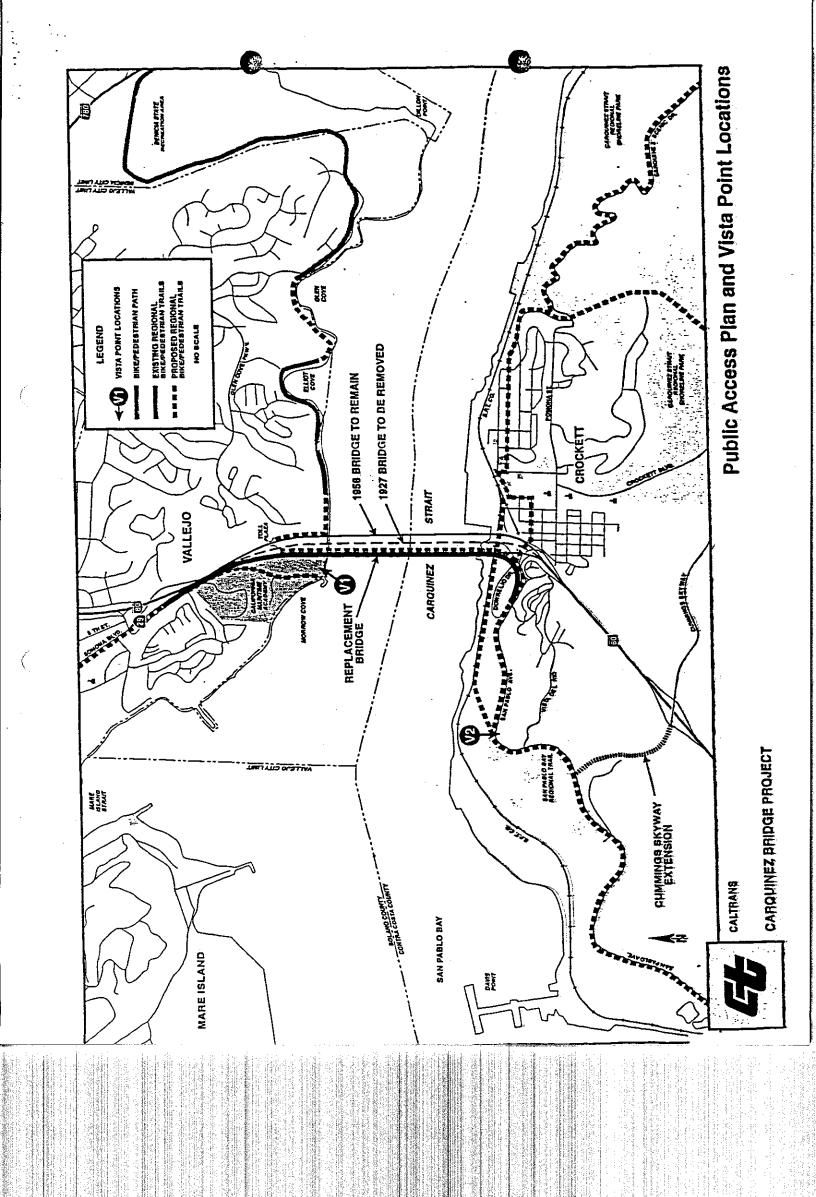
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U. S. Army Corps of Engineers, Attn.: Regulatory Functions Branch San Francisco Bay Regional Water Quality Control Board,

Attn.: Certification Section

Environmental Protection Agency, Attn.: Mike Monroe-W-3-3

Receipt acknowledged, contents understoo	a ana a	greed to:
Executed at Oakland CA		Caltrans
On Noy. 23, 1993	Ву:	Denis Milligni
	·	District Division Chief
		Title
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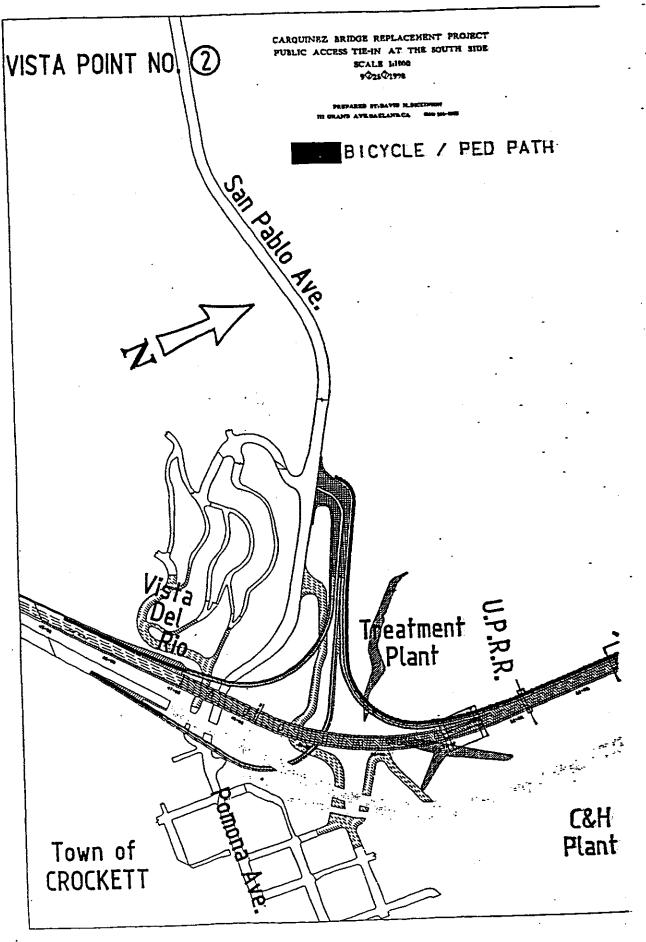
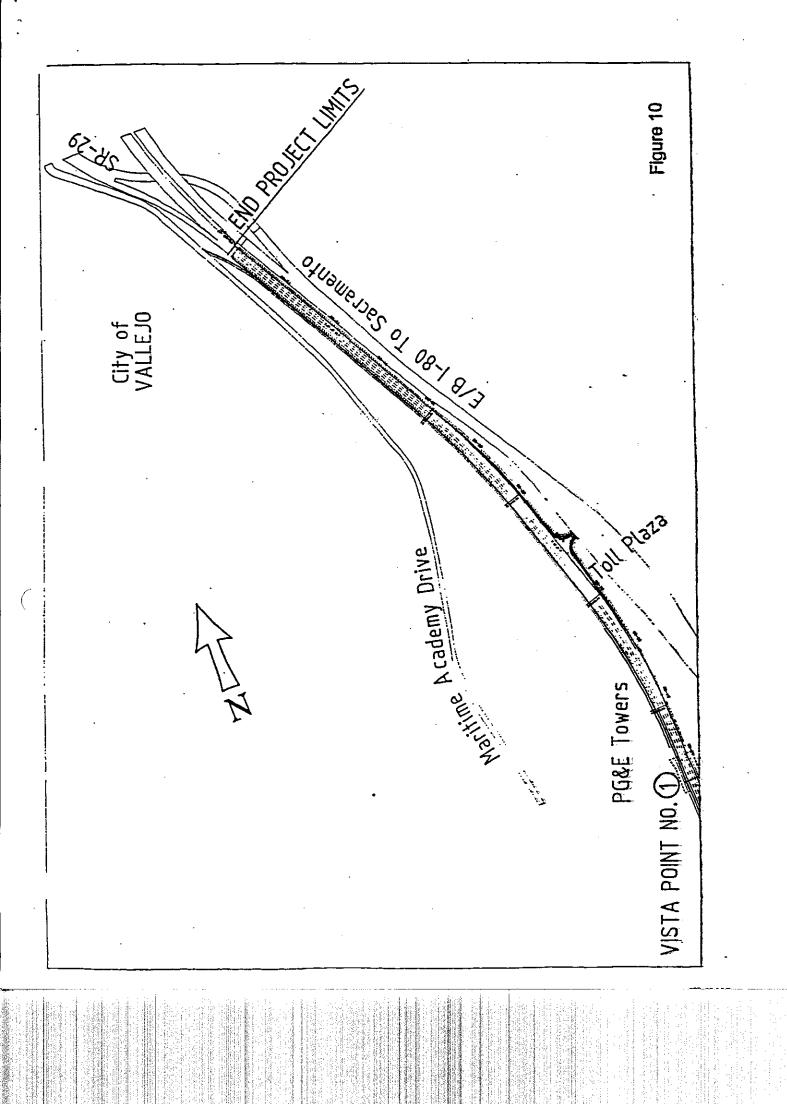
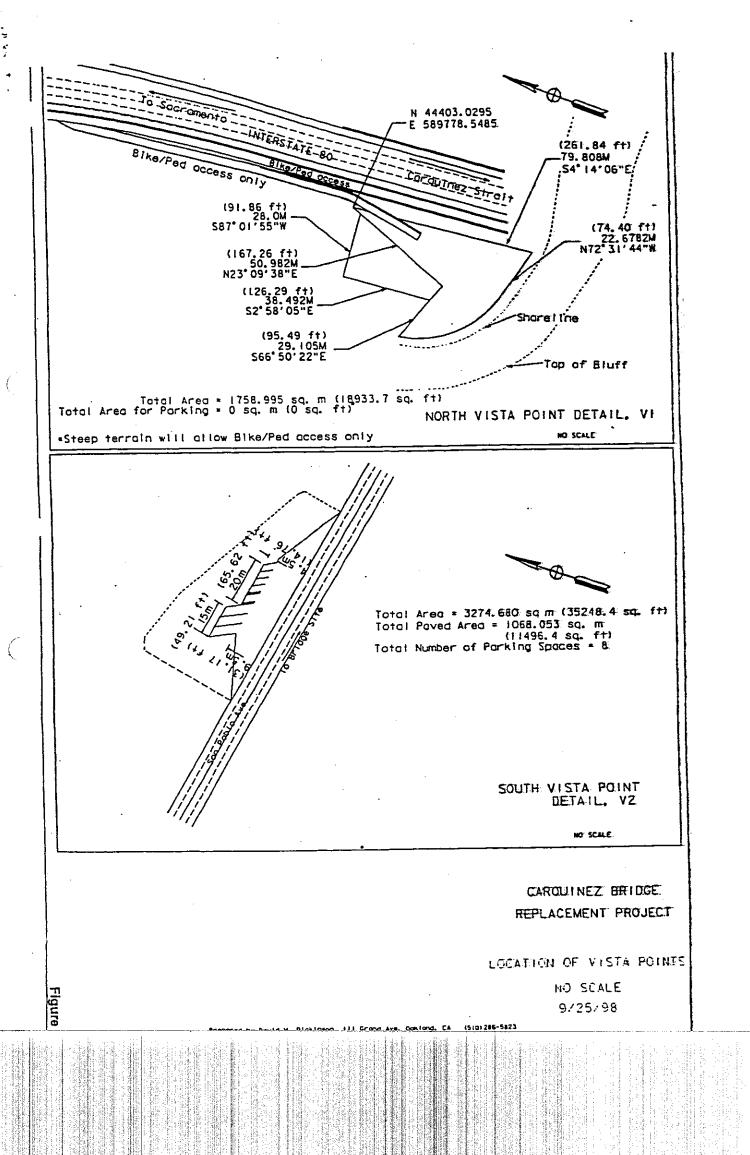


EXHIBIT B





DEC 0 4 1998

DEPARTMENT OF THE ARMY PERMIT

Permittee: The California Department of Transportation (Caltrans)

Permit Number: 21393N

Issuing Office: San Francisco District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

As part of the Carquinez Bridge Replacement Project, Caltrans is hereby authorized to:

- 1) place up to 1,010 cubic yards of fill on 920 square feet of wetland on the southern shore of the Carquinez Strait,
- 2) construct four cofferdams covering up to 14,400 square feet of the Carquinez Strait;
- 3) install piles to support 15,460 square feet of dolphins and fenders to protect the new bridge;
- 4) dredge 14,000 cubic yards of material from a 6,460 square foot area where the bridge foundations and protective structures of the new bridge will be placed;
- 5) demolish 6,500 square feet of dilapidated piers; and
- 6) place fill and excavate material while implementing the mitigation measures outlined in the September 8, 1998 report titled <u>Martinez Regional Shoreline Salt Marsh Enhancement: Conceptual Elements.</u>

The authorized work and placement of fill shall be done in accordance with the attached 10 drawings marked: " Carquinez-Bridge Project, In the Carquinez Strait, between the town of Crokett and the City of Vallejo, Contra Costa and Solano Counties, California.

Project Location: The project site is located on the shorelines and in the Carquinez Strait, between Contra Costa and Solano Counties, California. The mitigation site is located at the Martinez Regional Shoreline Park located in Contra Costa County California.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2005**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer; you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a tecovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

- 1. The dredged material shall be disposed of at an upland site outside of Corps jurisdiction.
- 2. The permittee shall contain all debris generated by the Carquinez Bridge replacement project and dispose of the material in an area outside of Corps jurisdiction. Caltrans is not authorized to temporarily stockpile any debris or construction materials in wetlands subject to Corps jurisdiction.
- 4. Caltrans shall submit a final mitigation and monitoring plan by July 30, 1999 for review and approval by the Army Corps of Engineers. The mitigation acreage shall be the same as proposed in the table on page 28 of the September 8, 1998 <u>Martinez Regional Shoreline Salt Marsh Enhancement: Conceptual Elements.</u> All the required maps shall be plan sized with the same scale.

Additionally the permitee shall provide in a separate section of the final mitigation and monitoring plan an additional plan for impacts to enginered drainage on the southern shoreline. This plan detailing the creation of the approximately 1800 square feet of wetland, west of the wetland which shall be filled by the footings of the new bridge approach on the southern shore. This plan shall also include: final success criteria, contingency plans, a map showing the current wetland boundary, a monitoring plan. The permittee shall submit with the final monitoring report: a map showing the wetland boundary.

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- 2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state; or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.

- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Delle Molligi (PERMITTEE)

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(33 CFR 325 (Appendix A))

)-cc. 4, 1998 (DATE)

(DISTRICT ANGINEER) Peter T. Grass	(DATE)	
	•	
When the structures or work authorized by this permit and conditions of this permit will continue to be bindithis permit and the associated liabilities associated wit and date below.	ing on the new owner(s) of the proper	ty. To validate the transfer o
		•
(TRANSFEREE)	(DATE)	
•		
ENG FORM 1721, Nov 86	4	(33 CFR: 325 (Appendix A

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers

	19 <u>98</u>
A permit to perform the work in Corps just	risdiction
atCarquinez Bridge	
has been issued toca neptof Transp.	on19
Address of Permittee P.O. Box 23660 Oakland, CA 94623-	-0660
Permit Number	dddd
21393N	PETER T. GRASS District Commander
	LTC, EN Commanding

ENG FORM 4336, Jul 81 (33 CFR 320-330) EDITION OF JUL 70 MAY BE USED \$\times \text{U.S.GPO:1995-621-596}

(Proponent: CECW-O)

NOTICE TO PERMITTEE

Please use the forms below to report the dates when you start and finish the work authorized by the enclosed permit. Also if you suspend work for an extended period of time, use the forms below to report the dates you suspended and resumed work. The second copy is for records. If you find that you cannot complete the work within the time granted by the permit, please apply for a time extension at one month before your permit expires. If you materially change the plan or scope of the work, it will be necessary for you to submit new drawings and a request for a modification of your permit. (cut out as needed) —————————————————————————————————					
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NOTICE OF COMPLETION OF WORK under Department of the Army permit No021393-0N TO: District Engineer, US Army Corps of Engineers, Regulatory Branch, 333 Market Street, 8th Floor, San Franch	Date:ancisco, CA 94105-2197				
In compliance with the conditions of the permit dated December 4, 1998 to perform the work in Corps jurisdic Carquinez this is to notify you that the work was completed on	tion associated with the				
Permittee: California Department of Transportation Address: P.O. Box 23660, Oakland, CA 94623					
NOTICE OF DESUMPTION OF WORK A D	Date:				
NOTICE OF RESUMPTION OF WORK under Department of the Army permit No021393-0N TO: District Engineer, US Army Corps of Engineers, Regulatory Branch, 333 Market Street, 8th Floor, San Fr.	ancisco, CA 94105-2197				
In compliance with the conditions of the permit dated December 4, 1998 to perform the work in Corps jurisdic Carquinez this is to notify you that work was resumed on	tion associated with the				
Permittee: California Department of Transportation Address: P.O. Box 23660, Oakland, CA 94623					
NOTICE OF SUSPENSION OF WORK under December of the August 201	Date:				
NOTICE OF SUSPENSION OF WORK under Department of the Army permit No021393-0N TO: District Engineer, US Army Corps of Engineers, Regulatory Branch, 333 Market Street, 8th Floor, San Fr	ancisco, CA 94105-2197				
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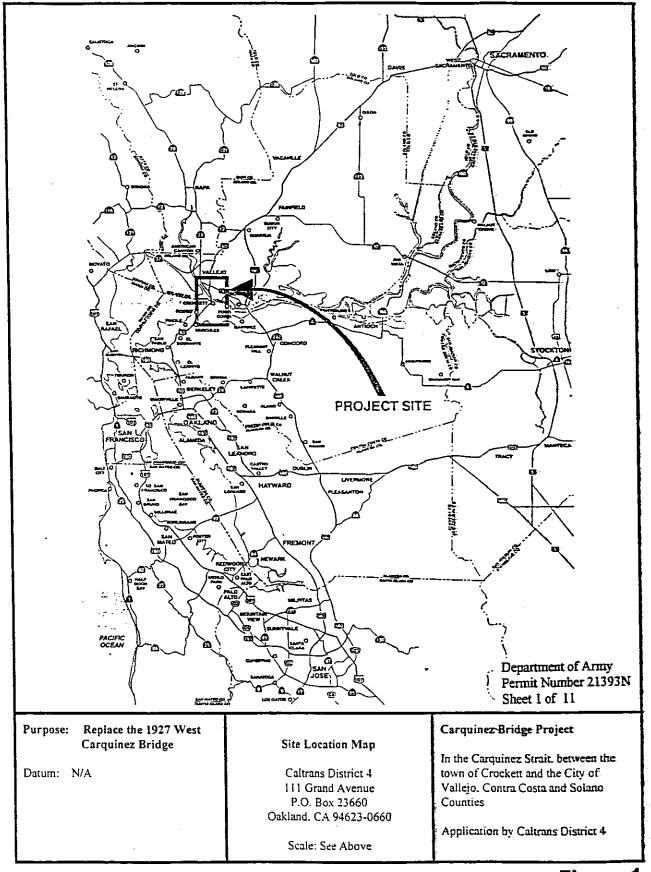


Figure 1

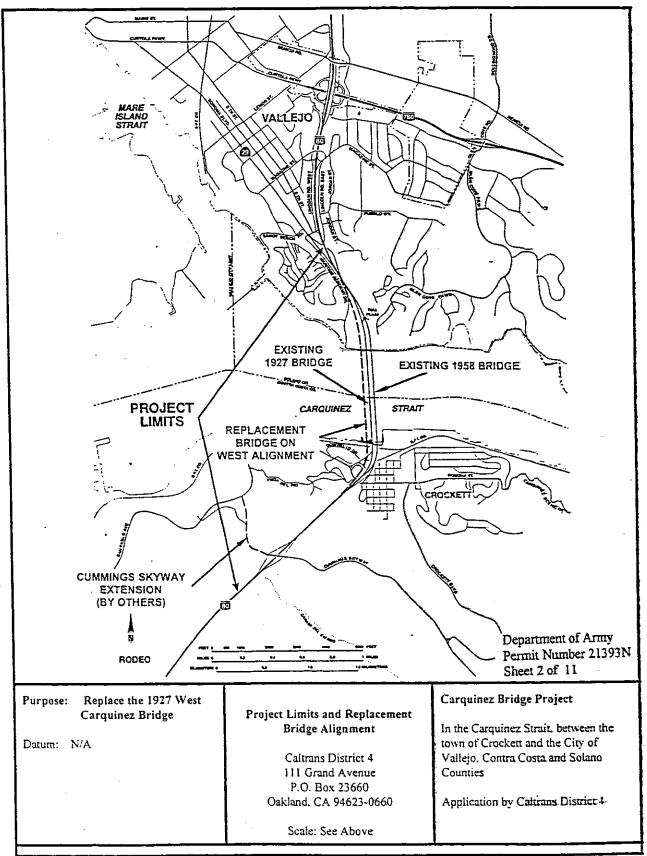
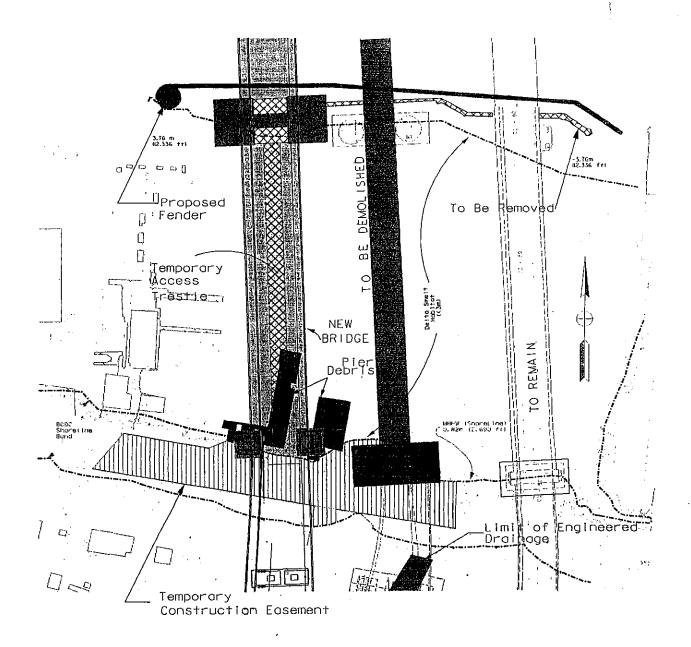


Figure 2



		BAY		SHORELINE
	SOLID	PILE-SUPP	CANTILEVERED (>150 FT OVER STRAIT)	SHORELINE
PERM.	1207.74 sq. m (13000 sq. ft)	483. (0 sq. (n (5200 sq. (1)	15607,71 sq. m - 168000 sq. ft) - South half of bridge	55.74 sq. m (600 sq. ft)
TO BE REMVD AFTER CONST.	1068.38 sq. m (11500 sq. fl)	1589, 22 sq. m (17100 sq. ft)	6224.5 sq. m (67000, sq. ft) South half of bridge	1. C. L 464. 52 5q. in (5000 5q. ft) EXIST FOOTING
				415, 42 sq. m (1450 sq. ft)

CARQUINEZ BRIDGE REPLACEMENT PROJECT

DETAIL A

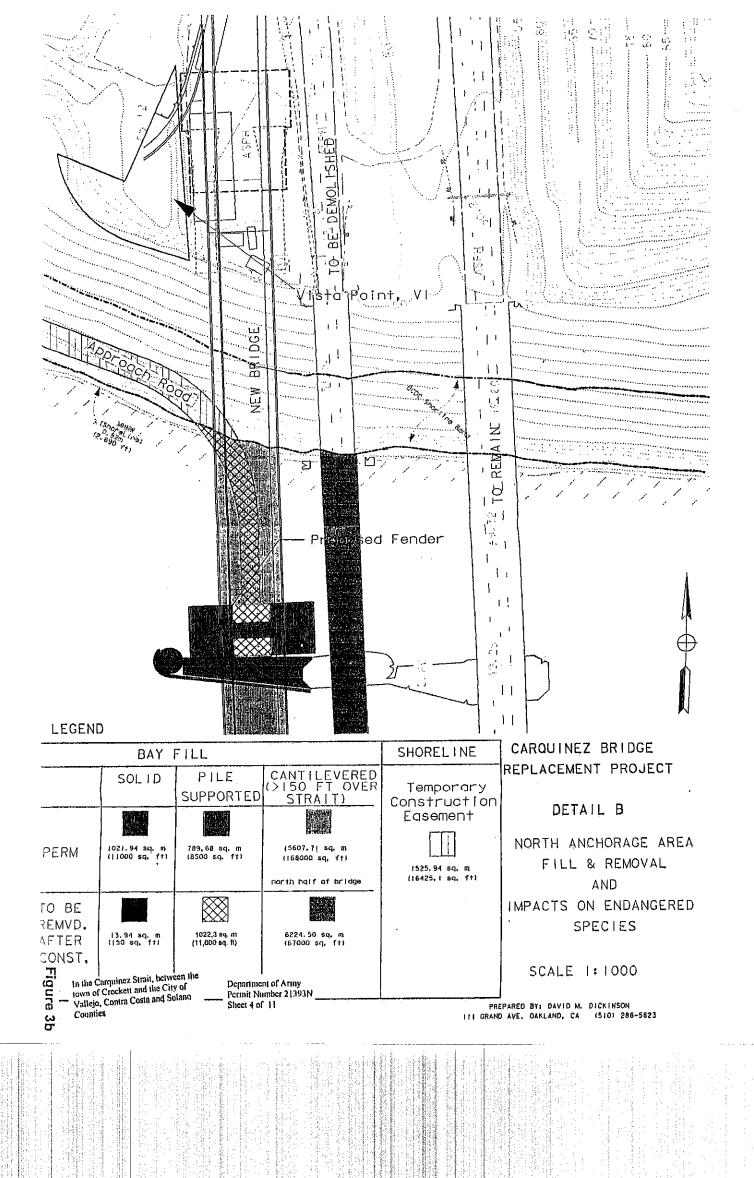
SOUTH ANCHORAGE
FILL & REMOVAL AND
IMPACTS ON ENDANGEREE
* SPECIES

Figure 3a

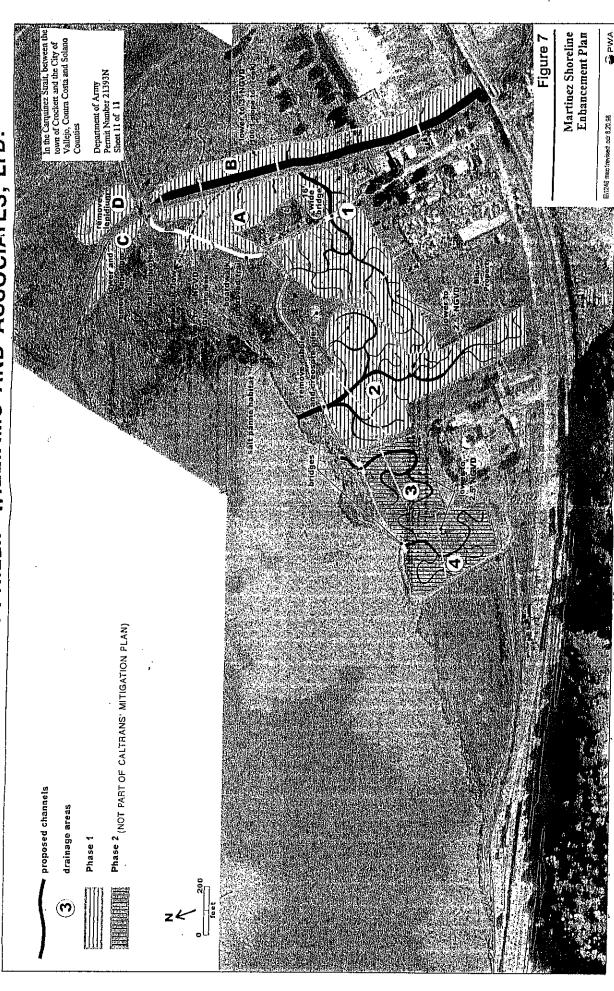
In the Carquinez Strait, between the town of Crockett and the City of Vallejo, Contra Costa and Solano Counties

Department of Army Permit Number 21393N Sheet 3 of 11 Scale 1:1000

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PREPARED BY: PHILLIP WILLIAMS AND ASSOCIATES, LTD.



CARQUINEZ BRIDGE REPLACEMENT PROJECT MITIGATION SITE PLAN